

THE JOHNS HOPKINS UNIVERSITY  
BALTIMORE, MARYLAND

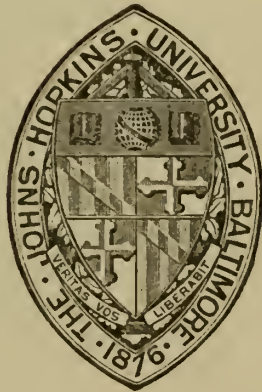
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# CONFERRING OF DEGREES

AT THE CLOSE OF THE SEVENTY-THIRD ACADEMIC YEAR

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JUNE 14, 1949



GILMAN HALL TERRACE

AT ELEVEN A. M.

# ORDER OF PROCESSION

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## CHIEF MARSHAL

G. HEBERTON EVANS, JR.

<i>Divisions</i>	<i>Marshals</i>
1. The President of the University, the Chaplain, Honored Guests, the Trustees	SIDNEY PAINTER
2. The Faculty	THOMAS F. HUBBARD
3. The Graduates	HOWARD E. COOPER, <i>Chief</i> HENRY T. ROWELL ROBERT H. ROY WALTER C. BOYER W. WORTHINGTON EWELL JOHN M. KOPPER ACHESON J. DUNCAN N. BRYLLION FAGIN RICHARD H. HOWLAND GILBERT F. OTTO BARNETT COHEN CHARLES A. BARKER

## USHERS

*Chief Usher*—CLYDE W. HUETHER

ALLEN CASE	SLOAN GRISWOLD
FRANCIS C. CHLAN, JR.	JOHN P. LAUBER
WILLIAM B. CRANE	WILLIAM M. MILLER
CHARLES E. DAILEY	JOHN G. SCHISLER
BRIAN L. DEVAN	MALCOLM D. VOELCKER

## ORGANIST

JOHN H. ELTERMANN

The audience is requested to stand as the academic procession moves into the area  
and remain standing until after the Invocation.

# ORDER OF EXERCISES

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## I

### PROCESSIONAL

Grand March from "Sigurd Jorsalfar" by Grieg

## II

### INVOCATION

The Reverend CLARE J. O'DWYER

SS. Philip and James Church

## III

### ANNOUNCEMENTS AND GREETINGS TO GRADUATES

President DETLEV W. BRONK

## IV

### ADDRESS TO GRADUATES

"The Strength of Democracy"

Dr. VANNEVAR BUSH

## V

### CONFERRING OF HONORARY DEGREES

Dr. ISAIAH BOWMAN — presented by Mr. OWEN LATTIMORE  
Dr. ABRAHAM FLEXNER — presented by Dr. H. CARRINGTON LANCASTER  
Dr. ALFRED NEWTON RICHARDS — presented by Dr. E. KENNERLY MARSHALL, JR.

## VI

### CONFERRING OF DEGREES

Bachelors of Arts — presented by Dean COX  
Bachelors of Engineering — presented by Dean KOUWENHOVEN  
Bachelors of Science in Engineering  
Masters of Science in Engineering  
Masters of Engineering  
Doctors of Engineering  
Bachelors of Science in Business — presented by Dean HAWKINS  
Bachelors of Science — presented by Dean HORN  
Bachelors of Science in Nursing  
Masters of Education — presented by Professor WHITELAW  
Doctors of Education  
Masters of Science in Hygiene — presented by Dr. JOHN C. HUME  
Doctors of Science in Hygiene  
Masters of Public Health  
Doctors of Public Health  
Doctors of Medicine — presented by Dean CHESNEY  
Masters of Arts — presented by Professor LANCASTER  
Doctors of Philosophy

## VII

### BENEDICTION

## VIII

### RECESSIONAL

Grand March from "Tannhäuser" by Wagner

The audience is requested to remain standing after the Benediction  
until the graduates have left the area.

# CANDIDATES FOR DEGREES

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## BACHELORS OF ARTS

- ACHILLE RAYMOND ALBOUZE, Jr., of Sacramento, Calif.  
SAMUEL ANSELEVITCH, of Baltimore, Md.  
HERBERT ASCHER, Jr., of Monroe, N. Y.  
FLAVIUS L. AUSTIN, Jr., of Roswell, N. Mex.  
VERNON CHARLES BACHMANN, of Baltimore, Md.  
DANIEL BARRON, of Baltimore, Md.  
RICHARD CALVIN BEESON, of Muncie, Ind.  
CHARLES BENESCH, of Baltimore, Md.  
JAMES FREDERICK BERRY, of Williamsport, Pa.  
KARL FREDERICK BIENER, of Baltimore, Md.  
JOSEPH JAMES BLIMLINE, Jr., of Baltimore, Md.  
JORDAN SIDNEY BLOOM, of Baltimore, Md.  
MARVIN BLUMBERG, of Baltimore, Md.  
DAVID HERMAN BLOCK, of Sampson, N. Y.  
MAX BODENHEIMER, of Baltimore, Md.  
THEODORE HOLIDAY BOUCHELLE, of Elkton, Md.  
CHARLES GORDON BOWERS, of Baltimore, Md.  
RICHARD OLIVER BRIGHTFIELD, of Essex, Md.  
HUBERT MARION BROWN, of Denver, Colo.  
RALPH ALBERT BRUNN, of Baltimore, Md.  
LEONARD ROBERT BUCKHEIT, of Baltimore, Md.  
ROBERT EARL BUCKLEY, of Buffalo, N. Y.  
WALTER HOUCK BYERLY, of Baltimore, Md.  
POLICARPO CALLEJAS, of Tegucigalpa, D. C., Honduras  
MARCUS NEWMAN CARROLL, Jr., of Ormond Beach, Fla.  
EDWIN BECK CARTON, of Cambridge, Md.  
MORRIS SAMUEL CHESTER, of Baltimore, Md.  
JOHN FINLEY CLOUGH, Jr., of Baltimore, Md.  
GERALD HARRY COOPER, of Baltimore, Md.  
IRVING LEONARD COOPERSTEIN, of Baltimore, Md.  
WINTON GUY COVEY, Jr., of Baltimore, Md.  
JOHN ALEXIE CRANE, Jr., of Baltimore, Md.  
ROGER MILLER DALSHMEIER, of Pikesville, Md.  
JAMES PAXTON DAVIS, Jr., of Winston Salem, N. C.  
LEROY LESLIE DRAPER, Jr., of Baltimore, Md.  
MALCOLM BURTON DREXLER, of Brooklyn, N. Y.  
JOHN THOMAS EAGAN, of Baltimore, Md.  
ROBERT HERMAN ECKERT, Jr., of Baltimore, Md.  
CHARLES ROGER ELGERT, of Baltimore, Md.  
JAMES RUSSELL ENGLISH, of Baltimore, Md.  
HAROLD ESECOVER, of Brooklyn, N. Y.  
JOHN EARL FEATHERS, Jr., of Baltimore, Md.  
LEWIS HOWARD FORD, of Baltimore, Md.  
HARRY GORDON FRANKFURT, of Baltimore, Md.  
SUMNER LESTER FREEMAN, of Haverhill, Mass.  
FRANCIS CHARLES FROELICHER, of Baltimore, Md.  
ROBERT THOMPSON FROST, of Baltimore, Md.  
JACK SUMNER GANS, of Roxbury, Mass.  
JOEL GARBUS, of Baltimore, Md.  
JOHN JOSEPH GARVEY, of Baltimore, Md.  
CLAUDE GERARD, of Baltimore, Md.  
EDMUND LEE GETTIER, III, of Baltimore, Md.  
EMANUEL STANLEY GLASSER, of Baltimore, Md.  
RICHARD LEE GLASSER, of Baltimore, Md.  
GEORGE GEIGER GLENNER, of Merion, Pa.  
WARREN W. GLICK, of Baltimore, Md.  
STANLEY BARRY GOLDBERG, of Baltimore, Md.  
ROBERT EARLE GREENLEE, Jr., of Baltimore, Md.  
WILLIAM ALFRED GRESHAM, of Baltimore, Md.  
CLEMENT JAMES GRESOCK, of Akron, Ohio  
LEONARD EARL GRISWOLD, of Baltimore, Md.  
ARNOLD AVRAM GUTMAN, of Philadelphia, Pa.  
LAWRENCE TINGLE GWYN, of Towson, Md.  
LEONARD COLEMAN HARBER, of Long Beach, N. Y.  
GEORGE WILLIAM HECK, Jr., of Baltimore, Md.  
JOHN WILBUR HEISSE, Jr., of Baltimore, Md.  
WILLIAM PAUL HILL, of Greenville, N. C.  
ALLEN HOFFSTEIN, of Brooklyn, N. Y.  
HARVEY WILLIAM HONICK, of Baltimore, Md.  
RICHARD HORTON HUGHES, of Morristown, N. J.  
ROBERT WHORTON IRELAND, of Baltimore, Md.  
MARK LEN ISAACS, of Baltimore, Md.  
WILLIAM NOELLERT JOHNSTON, of Baltimore, Md.  
RICHARD ALAN JOLSON, of Covington, Ky.  
KENNETH ALLEN KAHN, of Boulder, Colo.  
GEORGE ALBERT KAMMERER, Jr., of Baltimore, Md.  
HAYDEN GEORGE KEECH, Jr., of York, Pa.  
PETER SERVICE KERWIN, of New York, N. Y.  
WILLIAM WATERS KIRK, of Baltimore, Md.  
DONALD FREDERICK KLEIN, of Brooklyn, N. Y.  
HENRY LEROY KNOCK, Jr., of Baltimore, Md.  
HARRY GEORGE KOTHE, of Baltimore, Md.  
RICHARD LEON KRAWIEC, of Baltimore, Md.  
ARNOLD HENRY KRONE, Jr., of Baltimore, Md.  
CHING-WEN KUNG, of New York, N. Y.  
HAROLD L. LANDAU, of Kingston, Pa.  
HARRISON MORTON LANGRALL, Jr., of Baltimore, Md.  
WILLIAM RUSSELL LAUTERBACH, of Redwood Falls, Minn.



ROBERT HENRY LEAHY, of Elizabeth, N. J.  
 BENJAMIN BUCK LEE, of Baltimore, Md.  
 DAVID LEVY, of Baltimore, Md.  
 ROBERT IRVING LEVY, of Baltimore, Md.  
 GEORGE CROMWELL LILLY, of Greensboro, N. C.  
 ALVIN B. LONDON, of Baltimore, Md.  
 NORMAN LOWE, of Oakland, Calif.  
 GIRARD RICE LOWERY, JR., of Fairfax, Va.  
 ALBERT WILLIAM LUTZ, of Baltimore, Md.  
 DOUGLAS MACNAB, of Baltimore, Md.  
 HARRY BYRON MARCOPLOS, of Baltimore, Md.  
 JOHN FRANCIS MEHEGAN, of Baltimore, Md.  
 GEORGE STANLEY MELVILLE, JR., of Yonkers, N. Y.  
 CALVIN MELVIN MENZIE, of Baltimore, Md.  
 CHARLES DALY MILLER, of Salem, Va.  
 CHARLES MINER MILLER, of Baltimore, Md.  
 JOSEPH BOXLEY MILLER, JR., of Yazoo City, Miss.  
 JOHN GEORGE MONER, JR., of Bayonne, N. J.  
 CARL THOMAS MOORE, of Baltimore, Md.  
 SAMUEL TILGHMAN MORRIS, of Baltimore, Md.  
 WILLIAM FOWLER MORRISON, JR., of Raleigh, N. C.  
 IRWIN HAROLD MOSS, of Baltimore, Md.  
 MICHAEL C. MOTSKO, of Baltimore, Md.  
 GEORGE CHRISTIAN MULLINIX, of Baltimore, Md.  
 FRANK DAVID MUSGRAVE, of Baltimore, Md.  
 ANDREW MARTIN NEMETH, of Highland Park, N. J.  
 CLAYTON NORTON, of North Webster, Ind.  
 HARRY CLIFTON OSBORN, JR., of Uppereco, Md.  
 ALBERT HENRY OWENS, JR., of Staten Island, N. Y.  
 HUGH BRECKENRIDGE PAGON, of Baltimore, Md.  
 STERLING PATTERSON, JR., of Baltimore, Md.  
 GEORGE CHARLES PECORELLA, JR., of Baltimore, Md.  
 BARRY JOSEPH PLUNKETT, JR., of Forest Hills, Md.  
 JAMES RICHARD POWDER, of Lutherville, Md.  
 JOSÉ RAMÍREZ RIVERA, of Mayaguez, Puerto Rico  
 LEONARD RAVITZ, of Baltimore, Md.  
 THOMAS PYLE REID, of Milford, Conn.  
 CHARLES WILLIAM REINHARDT, II, of Baltimore, Md.  
 JOHN BROOKS RICE, of Montrose, W. Va.  
 MARTIN RODBELL, of Baltimore, Md.  
 PRESTON CHARLES ROGERS, JR., of Baltimore, Md.

WILLIAM FRANKLIN ROMEIKE, of Baltimore, Md.  
 MARTIN RUBENSTEIN, of Baltimore, Md.  
 WALTER ROEMER SATTERFIELD, of Baltimore, Md.  
 STANLEY JEROME SCHAPIRO, of Baltimore, Md.  
 RICHARD SCHIRAML, of Tottenville, Staten Island, N. Y.  
 MARTIN SCHWARTZ, of Worcester, Mass.  
 CLARENCE H. C. SEATON, of Pikesville, Md.  
 MURRAY JORDAN SELDEEN, of Baltimore, Md.  
 CHARLES KENDALL SERGEANT, of Baltimore, Md.  
 JOHN HAMILTON SETH, of Baltimore, Md.  
 JEROME EDWIN SHAPIRO, of Baltimore, Md.  
 DANIEL HAROLD SHEAR, of Baltimore, Md.  
 BERNARD JOSEPH SHERWIN, of Worcester, Mass.  
 THORNE SHIPLEY, of New York, N. Y.  
 JOEL ROBERT SIEGEL, of Baltimore, Md.  
 WILLIAM MERZ SINTON, of Baltimore, Md.  
 WILLIAM HOWRY SLASMAN, JR., of Baltimore, Md.  
 EDGAR JOSEPH SMITH, JR., of Baltimore, Md.  
 RICHARD WAMPLER SMITH, of Baltimore, Md.  
 REGINALD KENNETH SQUIRES, of Freeport, N. Y.  
 BURTON S. STERN, of Baltimore, Md.  
 MYRON SUBOTNIK, of Baltimore, Md.  
 NORMAN SUBOTNIK, of Baltimore, Md.  
 MORRIS TANENBAUM, of Baltimore, Md.  
 ROBERT LEWIS THALL, Jamaica, N. Y.  
 SHERWIN BRUCE TURNER, of Charlotte, N. C.  
 MICHAEL VASSALLO, of Fairfield, Conn.  
 WILLIAM RAYMOND VELICH, of Omaha, Nebr.  
 GRANT CHARLES VIETSCH, of Baltimore, Md.  
 JOSEPH LOUIS VIGLIATO, of Baltimore, Md.  
 ALFRED VIOLA, of Baltimore, Md.  
 LEWIS FRANCIS VOLPE, of Wilmerding, Pa.  
 ISRAEL HOWARD WEINER, of Baltimore, Md.  
 JAMES FRANKLIN WHITE, JR., of Kingsville, Md.  
 JOHN BATES WHITLA, of Arlington, N. J.  
 THOMAS PEARSON WILLIAMS, of Newburgh, N. Y.  
 FRANKLIN RALPH WINTER, of Baltimore, Md.  
 MARKLEY GORDON WOLMAN, of Baltimore, Md.  
 MAURICE LEON WOLPERT, of Baltimore, Md.  
 JAMES W. WOODS, of Wichita Falls, Texas  
 ARTHUR JOSEPH ZOEBELEIN, of St. Albans, N. Y.

(170)

#### GRADUATING WITH HONOR

FLAVIUS L. AUSTIN, JR.  
 CHARLES BENESCH  
 HUBERT MARION BROWN  
 IRVING LEONARD COOPERSTEIN  
 WINTON GUY COVEY, JR.  
 HARRY GORDON FRANKFURT  
 ROBERT THOMPSON FROST  
 CLAUDE GERARD  
 GEORGE GEIGER GLENNER  
 WARREN W. GLICK  
 ROBERT WHORTON IRELAND

HENRY LEROY KNOCK, JR.  
 ROBERT IRVING LEVY  
 HARRY CLIFTON OSBORN, JR.  
 BARRY JOSEPH PLUNKETT, JR.  
 JAMES RICHARD POWDER  
 WILLIAM FRANKLIN ROMEIKE  
 CLARENCE H. C. SEATON  
 MORRIS TANENBAUM  
 WILLIAM RAYMOND VELICH  
 ISRAEL HOWARD WEINER  
 MARKLEY GORDON WOLMAN

## BACHELORS OF ENGINEERING

- JAMES FLITTON ABBOTT, of Baltimore, Md.  
JOEL IVAN ABRAMS, of Baltimore, Md.  
ANTHONY ALCAMO, of Baltimore, Md.  
RICHARD COMPTON ALDRICH, of Baltimore, Md.  
JOHN WEHN ALMY, of Baltimore, Md.  
WAYNE PROSPER AMATO, of Baltimore, Md.  
JOHN RICHARD BAILEY, Sr., of Baltimore, Md.  
LOUIS BALDUCCI, of Baltimore, Md.  
WILMOT COLES BALL, Jr., of Ridgewood, N. J.  
LAWRENCE LAVERNE BALLARD, of Baltimore, Md.  
IRVING F. BARDITCH, of Baltimore, Md.  
BRUCE CARLTON BARGER, of Baltimore, Md.  
WILLIAM BONDAY BARGET, of Baltimore, Md.  
HERBERT STANLEY BARR, of Baltimore, Md.  
FRANCIS GORDON BARRY, of Baltimore, Md.  
STEPHEN HALE BARTLETT, of Baltimore, Md.  
CHARLES NESBITT BAUER, of Baltimore, Md.  
JAMES MILTON BELL, Jr., of Baltimore, Md.  
JAMES RALPH BENNER, of McArthur, Ohio  
CARL WALLACE BERGSTROM, of Baltimore, Md.  
JOSEPH MARTIN BERKOW, of Baltimore, Md.  
GEORGE MILLER BIDDISON, of Baltimore, Md.  
RICHARD PAUL BORCHERDING, of Baltimore, Md.  
ALLEN BRODSKY, of Baltimore, Md.  
FREDERICK WESLEY BROWN, of Baltimore, Md.  
JOHN THOMAS BROWN, Jr., of Baltimore, Md.  
STUART LEROY BROWN, Jr., of Upper Marlboro, Md.  
ARMIN MENZEL BRUNING, of Crownsville, Md.  
HAROLD CHARLES BURGAN, of Baltimore, Md.  
HERMAN ELIJAH BURNS, of Baltimore, Md.  
WILLIAM DONALD CAMPBELL, of Baltimore, Md.  
LEROY JOSEPH CAPRAROLA, of Baltimore, Md.  
HENRY DEVRIES CASSARD, Jr., of Baltimore, Md.  
RICHARD KNILL CHAPMAN, III, of Baltimore, Md.  
FRANKLIN DONALD CHRISTILF, of Baltimore, Md.  
GEORGE WILLIAM COLLINS, of Rhodesdale, Md.  
ROBERT MATTHIAS COULBOURN, III, of Baltimore, Md.  
JOHN DALTON COURSEY, of Grasonville, Md.  
WILLIAM MOORE DARRAGH, of Baltimore, Md.  
ALFONSO JOSEPH DELEONARDIS, of Philadelphia, Pa.  
JOSEPH EDWARD DICKERSON, of Baltimore, Md.  
ROBERT GIBSON DILLY, of Baltimore, Md.  
HARRY DONALD DOBE, of Baltimore, Md.  
CHARLES WILLIAM DONALD, of Baltimore, Md.  
THOMAS EDWARD DONNELLY, of Baltimore, Md.  
JOHN HENRY DOTTER, Jr., of Dundalk, Md.  
GEORGE ROBERT DRYDEN, of Baltimore, Md.  
SIGMUND ROBERT ECKHAUS, of Baltimore, Md.  
DIETRICH HENRY EDEL, Jr., of Baltimore, Md.  
MICHAEL KOSMAS EOANNOU, of Baltimore, Md.  
JOSEPH GEORGE FAY, of Baltimore, Md.  
JOSEPH JEROME FELDMANN, of Scarsdale, N. Y.  
EARL BERNARD FERGUSON, Jr., of Baltimore, Md.  
WILLIAM HENRY FLEISCHMAN, of Baltimore, Md.  
CHARLES JOSEPH FRANK, of Baltimore, Md.  
JEROME MARTIN FRANKLE, of Baltimore, Md.  
WILLIAM CHARLES FRANZ, Jr., of Baltimore, Md.  
GEORGE WASHINGTON FREY, Jr., of Baltimore, Md.  
WALTER AUGUSTUS FRIEND, Jr., of Baltimore, Md.  
LOUIS JOSEPH FRISCO, of Patchogue, N. Y.  
ROBERT ARNOLD GERSTER, of Rye, N. Y.  
COY MONTGOMERY GLASS, of Dundalk, Md.  
JOHN STRIDER GLASS, of Baltimore, Md.  
LEONARD MARVIN GLASS, of Baltimore, Md.  
SEYMOUR ROBERT GOODMAN, of Baltimore, Md.  
WARREN JACKSON GORE, of Baltimore, Md.  
JOSHUA EARL GREENSPON, of Baltimore, Md.  
ANDREW HENRY GRELLER, of Baltimore, Md.  
CALVIN JOSEPH GROCHMAL, of Baltimore, Md.  
JOSEPH ROBERT GUTBERLET, of Baltimore, Md.  
RAYMOND STRODTHOFF HACKETT, Jr., of Chase, Md.  
DONALD RICHARD HAGNER, of Baltimore, Md.  
JOSEPH FRANCIS HALLAMEYER, of Baltimore, Md.  
ARTHUR HOYT HAND, of Baltimore, Md.  
GEORGE MARCUS HANSEN, of Altoona, Pa.  
JOSEPH JACOB HANZOOK, of Baltimore, Md.  
CHARLES ARTHUR HARPER, Jr., of Flintstone, Md.  
JOHN THOMAS HARPER, of Baltimore, Md.  
CALVERT KIEFFER HARTLE, Jr., of Frederick, Md.  
CARROLL GUSTAV HECK, of Baltimore, Md.  
PAUL B. HESSEMER, of Baltimore, Md.  
CHARLES ROLAND HIGDON, Jr., of Baltimore, Md.  
ARTHUR CHARLES HILDEBRAND, of Dundalk, Md.  
CHARLES LOUIS HOCK, of Baltimore, Md.  
WILLIAM RAND HODGES, of Baltimore, Md.  
HENRY CLAY HOFFMAN, Jr., of Catonsville, Md.  
FRANCIS GERALD HOLECHECK, of Baltimore, Md.  
HARRY LAMBERT HOLMAN, of Friendsville, Md.  
JOHN ANDREW HOOVER, of Baltimore, Md.  
JAMES ALBERT HOUSTON, of Baltimore, Md.  
JOHN EDWIN HOUTZ, of Baltimore, Md.  
JAMES DONALD HOWELL, of War, W. Va.  
ELLIOTT ROBERT HUDGINS, of Baltimore, Md.  
KENNETH DUNLAP HUDSON, of Snow Hill, Md.  
NORRIS JACKSON HUFFINGTON, Jr., of Baltimore, Md.  
EDWARD CLARENCE JASTREMSKI, of Baltimore, Md.



JOSEPH KAIN, of Baltimore, Md.  
FRED CARL KARABAICH, of Weirton, W. Va.  
ROBERT EDWARD KEGAN, of Baltimore, Md.  
DONALD CLAIR KEPHART, of New Cumberland, Pa.  
STUART ROBERTSON KEYES, JR., of Baltimore, Md.  
WERNER KLOETZLI, JR., of Baltimore, Md.  
LOUIS VALENTINE KOERBER, of Baltimore, Md.  
HARRY GREGORY KOSKY, of Baltimore, Md.  
FRANK MARTIN KRANTZ, of Baltimore, Md.  
FRANK WILLIAM KREBS, JR., of Baltimore, Md.  
EDWARD THOMAS KUSTERER, of Baltimore, Md.  
ERVEN LEO LAMBERT, of Baltimore, Md.  
MILLARD TUTTLE LANG, of Baltimore, Md.  
EDWARD DONALD LASSAINE, of Baltimore, Md.  
CHARLES HAZLEHURST LATROBE, III, of Baltimore, Md.  
EPIRAIM LIEBERMAN, of Baltimore, Md.  
WILLIAM GEORGE LONGEST, of Baltimore, Md.  
CHARLES EDWARD LOTZ, of Baltimore, Md.  
HENRY MAXWELL LUMMIS, III, of Baltimore, Md.  
CLINTON KILTY MACSHERRY, JR., of Baltimore, Md.  
JAMES WILLIAM MANNION, JR., of Baltimore, Md.  
LEROY BRENT MATHEWS, of Catonsville, Md.  
LESTER MATZ, of Baltimore, Md.  
RAYMOND LOUIS MECKEL, of Baltimore, Md.  
CHARLES EDWIN MEGINNIS, of Baltimore, Md.  
DONALD MARION MELVIN, of Baltimore, Md.  
LOUIS JOSEPH MENIN, JR., of Dundalk, Md.  
JOHN C. MESMERINGER, JR., of Baltimore, Md.  
NORVELL ELLIOTT MILLER, III, of Baltimore, Md.  
THOMAS HENRY MILLER, of Baltimore, Md.  
HARRY MILFORD MOSES, of Fresno, Calif.  
ISADORE MOSKOWITZ, of Baltimore, Md.  
MORTON PETER MOYLE, of Arnold, Md.  
CHARLES BURKE MUDD, of Towson, Md.  
JOHN CHARLES NEU, of Baltimore, Md.  
ALBERT WALTER O'SHEA, of Baltimore, Md.  
ANTHONY OVER, of Baltimore, Md.  
MILFORD MEADE PARRY, of Baltimore, Md.  
JAMES DONALD PAULUS, of Baltimore, Md.  
ROBERT ANTON PEARCE, of Baltimore, Md.  
HARRY JACKSON PEYTON, JR., of Baltimore, Md.  
THOMAS COULSON PINKERTON, of Baltimore, Md.  
HARRY JACOBS PISTEL, of Baltimore, Md.  
WALTER WINFIELD PLEINES, of Baltimore, Md.  
JOHN WALTER PRITCHARD, of Baltimore, Md.  
WILLIAM ABIATHAR RANCK, JR., of Baltimore, Md.  
OLAF NORRIS RASK, of Baltimore, Md.  
CHARLES BRODHEAD RAWLINS, of Annapolis, Md.  
GEORGE LEVIN REGESTER, of Baltimore, Md.  
JOHN CLIFTON REIER, of Baltimore, Md.  
ALBERT REISZ, of Baltimore, Md.

JOSEPH JOHN REMBOCK, of Baltimore, Md.  
GORDON EARL RHODES, of Baltimore, Md.  
ROBERT FRANCIS RILEY, of Catonsville, Md.  
JACK MORRIS ROBBINS, of Cambridge, Md.  
LOUIS ROBINSON, JR., of Baltimore, Md.  
DONALD STANLEY RODBELL, of Baltimore, Md.  
DONALD PAUL ROSEMAN, of Baltimore, Md.  
LEONARD GEORGE RUTKOWSKI, of Baltimore, Md.  
ROBERT MICHAEL SALEMI, of Baltimore, Md.  
HOWARD EDWARD SCHEIDLE, of Baltimore, Md.  
LOUIS SCHEUER, II, of Baltimore, Md.  
EDMUND W. SCHIEMER, of Baltimore, Md.  
ALVIN KENNETH SCHLERF, of Baltimore, Md.  
WALTER DANIEL SCHMIDT, of Dundalk, Md.  
LUTHER KIRWIN SCHNEIDER, of Baltimore, Md.  
HOWARD AULD SCHNEFFE, JR., of Baltimore, Md.  
HENRY GEORGE SCHOBBER, of Baltimore, Md.  
EDWARD KING SCHULTZ, JR., of Baltimore, Md.  
WALTER EDWARD SCRIBNER, JR., of Baltimore, Md.  
JOHN SELLORS, of Baltimore, Md.  
BERNARD JEROME SEVEL, of Baltimore, Md.  
THEODORE HOLBROOK SIEGEL, of Baltimore, Md.  
JOSEPH GERSTLEY SINSHEIMER, of Baltimore, Md.  
LEROY HARRINGTON SMITH, JR., of Baltimore, Md.  
RICHARD WOLFGANG SONNENFELDT, of Baltimore, Md.  
KNUT K. SORTEBERG, of Aal, Hallingdal, Norway  
HAROLD GUSTAVE SPANGLER, of Baltimore, Md.  
JOHN EDWARD STALLKNECHT, of Baltimore, Md.  
LOUIS DUVALL STARR, of Baltimore, Md.  
MARTIN HERMAN STEPHEN, of Baltimore, Md.  
GEORGE HENRY STIEGLER, JR., of Baltimore, Md.  
MARK MONTEVERDE STOKES, of Towson, Md.  
JAY HENRY STODENMIRE, of Baltimore, Md.  
KEEFER STANLEY STULL, JR., of Frederick, Md.  
JEROME ALPHONSUS SVEC, of Baltimore, Md.  
WILLIAM PATRICK SWEENEY, of Baltimore, Md.  
PAUL BAKER THOMAS, JR., of Baltimore, Md.  
JAMES POLLARD THOMPSON, of Baltimore, Md.  
STEPHEN CHARLES TRAUOGOTT, of Baltimore, Md.  
WILLIAM MORTON TUCKER, of Baltimore, Md.  
ROBERT ARCHER TURNER, of Baltimore, Md.  
NORMAN EUGENE TYSON, of Gardners, Pa.  
WILLIAM KYLE UPTON, of Baltimore, Md.  
EDWARD ALFRED VALIANT, of Baltimore, Md.  
JAMES WILLIAM WALSH, of York, Pa.  
MYER WARANCH, of Baltimore, Md.  
ELMER NELSON WAREHEIM, JR., of Baltimore, Md.  
HOWARD WAUGH, JR., of Baltimore, Md.  
CHARLES MERVYN WEANT, of Hagerstown, Md.  
WALTER EDWARD WILHELM, of Baltimore, Md.

ROBERT JOHN WALTER WILLIAMS, of Baltimore, Md.  
DAVID CURTIS WOOD, of Annapolis, Md.  
FRANZ PHILIP YOUNG, of Baltimore, Md.

GEORGE PAUL YUCIUS, of Orlando, Fla.  
CARL JAY ZINK, of Baltimore, Md.

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GRADUATING WITH HONOR

JOEL IVAN ABRAMS  
BRUCE CARLTON BARGER  
LEROY JOSEPH CAPRAROLA  
ALFONSO JOSEPH DELEONARDIS  
JEROME MARTIN FRANKLE  
NORRIS JACKSON HUFFINGTON, JR.

JOHN CHARLES NEU  
WALTER DANIEL SCHMIDT  
THEODORE HOLBROOK SIEGEL  
RICHARD WOLFGANG SONNENFELDT  
KEEFER STANLEY STULL, JR.  
WILLIAM KYLE UPTON

BACHELOR OF SCIENCE IN AERONAUTICS

HENRY DIETER DANKENBRING, of Queens Village, N. Y.

(1)

BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING

CHARLES EDWIN COUCHMAN, JR., of Baltimore, Md.  
DANIEL FREDERICK REISENWEBER, of Baltimore, Md.

IRVIN ANTHONY STRICKER, of Baltimore, Md.

(3)

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

WILLIAM OTTO LUETTE, JR., of Baltimore, Md.  
EDWARD BRYDON STUBBS, of Catonsville, Md.

ANDREW JAMES STUBLER, of Baltimore, Md.  
TOWNLEY ROBEY WOLFE, III, of Baltimore, Md.

(4)

BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

THOMAS EDWARD BURKE, of Baltimore, Md.  
WILLIAM CLARKE COOKE, JR., of Baltimore, Md.  
FREDERICK TALBOT DECOCK, of Baltimore, Md.

IRVIN FELIX FREED, of Baltimore, Md.  
STANLEY TABORSKY, of Baltimore, Md.

(5)

BACHELORS OF SCIENCE IN INDUSTRIAL ENGINEERING

MITCHELL MELVIN HALL, JR., of Baltimore, Md.

MELVIN KROLCZYK, of Baltimore, Md.

(2)

GRADUATING WITH HONOR

MITCHELL MELVIN HALL, JR.

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

GEORGE J. FAGAN, of Odenton, Md.  
HARRY EVERETT KOERNER, of Baltimore Md.  
EDWARD WALTER KOWALSKI, of Baltimore, Md.  
HENRY EDMUND KULWICKI, of Baltimore Md.

LYAL HENRY PEYTON, of Baltimore, Md.  
WILSON DOUGLAS RUTHERFORD, of Baltimore, Md.  
DONALD EUGENE SOMERSET, of Baltimore, Md.  
PAUL GERARD SWINDELL, of Fullerton, Md.

(8)

GRADUATING WITH HONOR

HARRY EVERETT KOERNER



## MASTERS OF SCIENCE IN ENGINEERING

### WITH TITLES OF ESSAYS

- MOHAMED MOHAMED AGAMIEH, of Cairo, Egypt, C. E. Fouad 1st University, 1932. Sanitary Engineering.  
Chemical Weed Control with Special Reference to Noxious Aquatic Weeds in Egyptian Irrigation Canals.
- WILFRED EDMUND BAKER, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Mechanical Engineering.  
Internal Damping of Vibration of a Cantilever Beam.
- CHARLES CHESTER BIGELOW, of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Mechanical Engineering.  
A Study of Free Lateral Vibration of a Cantilever Beam in a Centrifugal Field.
- WILLARD RALPH BONWIT, of Pikesville, Md., B. S. United States Naval Academy, 1944. Industrial Engineering.  
Union Participation in Time Study.
- JOHN HARRISON CROWE, of Corpus Christi, Texas, B. S. United States Naval Academy, 1939. Electrical Engineering.  
Magnetic Amplifiers.
- JOSEPH PAUL D'AREZZO, of Los Angeles, Calif., B. S. United States Naval Academy, 1940. Electrical Engineering.  
A Magnetic Variable Attenuator for Rectangular Waveguide and General Data on Its Principle of Operation.
- EDWARD HARLESTON DE SAUSSURE, JR., of Charleston, S. C., B. S. United States Military Academy, 1941. Electrical Engineering.  
An Experimental Determination of the Spreading Thermal Resistance in a Cylindrical Metal Bar.
- WARREN LEE DIVER, of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Civil Engineering.  
Design of a Rigid Frame Industrial Building of Three Aisles.
- RICHARD JOSEPH EGGER, of Columbus, Ohio, B. S. University of Dayton, 1940. Electrical Engineering.  
Radio Telemetry from Missiles.
- JUDSON ADAMS HARMON, of San Gabriel, Calif., B. S. University of California, 1930. Sanitary Engineering.  
Changes in Chemically Polluted Waters Percolating through Soil.
- ALLAN KATZ, of Baltimore, Md., B. E. Georgia School of Technology, 1948. Industrial Engineering.  
An Experiment in Rating for Time Study.
- THOMAS LITCHFIELD KENNEDY, of Baltimore, Md., B. S. in C. E. Georgia School of Technology, 1927. Civil Engineering.  
Lacing Bar in Steel Columns.
- JAMES FAWCETT KINCAID, of Arlington, Va., B. M. E. The George Washington University, 1944. Mechanical Engineering.  
The Dynamic Vibration Absorber Applied to Impulse Turbine Blades.
- CONRAD EPPING KOERPER, of San Antonio, Tex., B. S. United States Military Academy, 1943. Mechanical Engineering.  
Large Deformations Accompanied by Small Strains.
- WILLIAM FRANKLIN LAHATTE, of Vicksburg, Miss., B. S. Mississippi State College, 1940. Electrical Engineering.  
Characteristics of Anode Spots in High Current Arcs.
- ALVIN LORECK, of Baltimore, Md., B. E. The Johns Hopkins University, 1947. Industrial Engineering.  
The Application of Industrial Engineering Techniques to Hospital Management.
- MRUTYUNJAYA MAHAPATRA, of Puri, India, C. E. Orissa School of Engineering, 1936. Sanitary Engineering.  
Value of Lime as Water Disinfectant.
- JABUS WILLIE RAWLS, JR., of Kent, Wash., B. S. Mississippi State College, 1936. Electrical Engineering.  
High Speed, Single-Transient Oscillography and its Application in the Rogowski Oscillograph.
- EDWIN SIMON SCHMUCKER, JR., of Baltimore, Md., B. E. The Johns Hopkins University, 1948. Civil Engineering.  
Sheet Pile Design Curves.
- LEON ARNOLD SIGEL, of Baltimore, Md., B. E. The Johns Hopkins University, 1947. Chemical Engineering.  
Natural Convection Heat Transfer to n-Pentane Around the Hyper-Critical Region.
- MERRILL IVAN SKOLNIK, of Baltimore, Md., B. E. The Johns Hopkins University, 1947. Electrical Engineering.  
The High Current Electric Arc.
- FREDERICK ADAIR SMITH, JR., of Dallas, Tex., B. S. United States Military Academy, 1944. Mechanical Engineering.  
Torsion of a Multiply Connected Section of a Bar.
- JEFFREY GREENWOOD SMITH, of Atlanta, Ga., B. S. Virginia Military Institute, 1943. Mechanical Engineering.  
Preliminary Study of the Cylindrical Vibration Damper.
- RAY HOSLEY SMITH, of Shinglehouse, Penn., B. S. St. Bonaventure College, 1943. Mechanical Engineering.  
Fatigue of Perforated Plates in Transverse Bending.
- MORGAN EDGAR STEWART, of N. Sacramento, Calif., B. S. University of California, 1939. Sanitary Engineering.  
Disposal of Septic Tank Effluent in Clay Soils.

MALLADI VENKATA SURYAPRAKASAM, of Bapatta, Madras, India, B. E. College of Engineering, Madras, 1933. Sanitary Engineering.

Hydraulics of Distribution Systems.

CHARLES ALLAN WILSON, JR., of Stratford, Conn., B. S. United States Military Academy, 1943. Electrical Engineering.

A Wide-range Sweeping Oscillator.

CLYDE EDWARDS YODER, of Abbeville, S. C., B. S. Clemson Agricultural and Mechanical College, 1943. Sanitary Engineering.

Coagulation of Sewage Effluent with Waste Pickle Liquor and Copperas.

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## MASTERS OF ENGINEERING

WITH TITLES OF ESSAYS

RALPH ROGER BERG, of Great Neck, N. Y., B. E. Yale University, 1944. Chemical Engineering.

The Relative Reactivities of Styrene and Butadiene in Reaction Mixtures Producing Popcorn Polymer.

THOMAS DAVID CAULFIELD, of Gloster, Miss., B. S. Georgia School of Technology, 1938. Electrical Engineering.

A reaction Method for the Determination of the Absorption Coefficients of Plane Surfaces.

PAUL THOMAS DAVIS, of Baltimore, Md., B. S. Ch. E. Purdue University, 1944. Chemical Engineering.

A Study of the Adsorption of Benzene by Static and Dynamic Methods.

BERTRAND DES CLERS DE BEAUMETS, of Paris, France, B. S. Bowdoin College, 1947. Aeronautics.

A Fourier Series Treatment of Linearized Axially-Symmetric Flow.

WAYNE ALVIN FEY, of Baltimore, Md., B. E. Yale University, 1947. Aeronautics.

The Problem of Sound in Low Turbulence Wind Tunnels.

NEIL HARTMAN FISHER, of Baltimore, Md., B. S. United States Naval Academy, 1940. Electrical Engineering.

Eddy Current Damping in Flat and Cylindrical Conducting Surfaces.

OSCAR EDWARD GRAY, JR., of Bordentown, N. J., B. S. United States Naval Academy, 1940. Electrical Engineering.

Design Considerations of a Fast Sweep Oscillograph.

ROBERT ROBINSON GREEN, of Connersville, Ind., B. S. United States Naval Academy, 1939. Electrical Engineering.

High Intensity Short Duration Light Sources.

WIDMER CASE HANSEN, of Midwest, Wyo., B. S. United States Naval Academy, 1939. Electrical Engineering.

A Standard of High Frequency Power Factor.

CHARLES FRANCIS HELME, JR., of Kingston, Pa., B. S. United States Naval Academy, 1942. Electrical Engineering.

Electromagnets for Use with 400-Cycle Aircraft Power Supplies.

DAVE JOHNSTON, JR., of Cockeysville, Md., B. S. United States Naval Academy, 1939. Electrical Engineering.

Correlation of Radiation Field Patterns with Circularly Symmetric Aperture Distributions.

WILBERT MITCHELL LAIR, of Baltimore, Md., B. S. Purdue University, 1945. Chemical Engineering.

Peroxide-Catalyzed Reaction of Tertiary Butyl Catechol in Benzene.

HARRY ELLIS MALOY, JR., of Baltimore, Md., B. S. University of Pittsburgh, 1938. Aeronautics.

The Investigation of a Compressor System for a Supersonic Wind Tunnel.

PRESTON LIVELY MANSFIELD, of Munfordville, Ky., B. S. United States Naval Academy, 1941. Electrical Engineering.

Radio Frequency Telemetering.

FRED EARL McENTIRE, JR., of Lock Haven, Pa., B. S. United States Naval Academy, 1938. Electrical Engineering.

The Firing Characteristics of Certain Small Thyratrons.

HORACE PHILLIPS McNEAL, of Norfolk, Va., B. S. United States Naval Academy, 1941. Electrical Engineering.

Subminiature Tubes—Prediction of Failure and Life Testing Under Normal and Overload Conditions.

JAMES ROBERT PAYNE, of Atlanta, Ga., B. S. United States Naval Academy, 1938. Electrical Engineering.

Automatic Control of the Terminal Voltage of 12.5 KVA Alternator.

IRVIN WOLOCK, of Baltimore, Md., B. E. The Johns Hopkins University, 1943. Chemical Engineering.

Adsorption Studies of Linseed Oil Films.

MARK WILLIAM WOODS, of Lincoln, Nebr., B. S. United States Naval Academy, 1941. Electrical Engineering.

Environmental Testing of an Electric-Hydraulic Servomechanism.

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## DOCTORS OF ENGINEERING

### WITH TITLES OF DISSERTATIONS

MOHAMED ALI ALI FARAG, of Alexandria, Egypt, B. S. Fouad 1st University, 1940; M. S. The Johns Hopkins University, 1948. Sanitary Engineering.

A Study of Hydraulic and Chemical Wash of Rapid Sand Filters.

HARRY LEVIN, of Baltimore, Md., B. E. The Johns Hopkins University, 1941. Chemical Engineering.

The Thermodynamics of Thermogalvanic Cells.

LEON JOSEPH L'HEUREUX, of Ottawa, Ont., Canada, B. A. University of Ottawa, 1940; B. S. University of Saskatchewan, 1944. Electrical Engineering.

The Effects of the Opening Velocity of Electrical Contacts on the Arc Energy for Inductive Loads.

WEYMOUTH NEILL McDANIEL, of Dundalk, Md., B. E. The Johns Hopkins University, 1942. Mechanical Engineering.

An Investigation of the Convergent-Divergent Nozzle When Used in Coal Pulverization.

YOUNES AMIN OMAR, of Cairo, Egypt, B. S. Fouad 1st University, 1939; M. S. The Johns Hopkins University, 1948. Electrical Engineering.

The Characteristic Impedance of Rectangular Coaxial Transmission Lines.

JAMES HARRY POTTER, of Baltimore, Md., B. S. Columbia University, 1935; M. E. 1936. Mechanical Engineering.

Thermal Resistance of Metal Contacts.

CHARLES HARRY ROTHAUAGE, of Baltimore, Md., B. E. The Johns Hopkins University, 1940. Electrical Engineering.

Measurement of the Electrical Characteristics of Quartz Crystal Units by Use of a Bridged Tee Network.

WERNER RUEGGERBERG, of Baltimore, Md., B. E. The Johns Hopkins University, 1942. Electrical Engineering.

The Dielectric Properties of Some Thermosetting Materials under Rising Temperature.

ROLAND VIRGIL TIEDE, of Lawton, Okla., A. B. Oberlin College, 1933; B. S. University of California, 1941. Electrical Engineering.

Reactive Speed-Torque Control of Squirrel-Cage Induction Motors.

(9)

## BACHELORS OF SCIENCE IN BUSINESS

PHILIP SMITH ANDREWS, of Hurlock, Md.

ALAN HAYMAKER ANTHONY, of Baltimore, Md.

HARRY EUGENE APPLEBY, of Baltimore, Md.

WILLIAM AUSTIN ARRINGTON, JR., of Baltimore, Md.

MELVIN FRANKLIN BERNGARTT, of Baltimore, Md.

GEORGE W. BLACK, JR., of Baltimore, Md.

JOHN ALOYSIUS BRESLIN, of Willston Park, N. Y.

CHARLES EDWIN BRISTOR, III, of Baltimore, Md.

NICHOLAS P. K. BROWN, of Baltimore, Md.

WILLIAM DAVID CLAYTON, JR., of Baltimore, Md.

ROBERT LELAND COBB, of Baltimore, Md.

WILLIAM FALLIN DINSMORE, of Baltimore, Md.

LOUIS FREDERICK HERMAN DUBBERT, of Baltimore, Md.

NICHOLAS KOSMAS EOANNOU, of Baltimore, Md.

JOHN WILLIAM ERNEST, of Baltimore, Md.

PAUL CLAYTON FAZENBAKER, of Baltimore, Md.

ARTHUR ROBERT FOLKOFF, of Baltimore, Md.

WILLIAM FRIEDLANDER, of Baltimore, Md.

JULIAN LEE GELWASSER, of Baltimore, Md.

DONALD SIDNEY GREENBERG, of Baltimore, Md.

ISADORE R. HANKIN, of Baltimore, Md.

EDMUND KEARSLEY HARTLEY, of Baltimore, Md.

RICHARD LIVINGSTON HARVEY, JR., of Baltimore, Md.

WILLIAM HENRY HAZLEHURST, of Baltimore, Md.

CYRIL HENRY HEBRANK, JR., of Hicksville, N. Y.

CARL EMANUEL HECHT, JR., of Baltimore, Md.

GORDON ANDES HELLMANN, of New York, N. Y.

TOBIAS HYMER, of Baltimore, Md.

EDWIN RONALD JACOBSON, of Baltimore, Md.

THOMAS DONALD JAMES, of Baltimore, Md.

RICHARD OSCAR KATZ, of Baltimore, Md.

JOHN ROBERT KENEALY, of Baltimore, Md.

HARRY WILLIAM KLASMEIER, of Baltimore, Md.

WARREN JOSEPH KWEDAR, of Baltimore, Md.

FREDERICK CHARLES LANG, JR., of Richmond Hill, N. Y.

EDWARD BENJAMIN LAUER, of Baltimore, Md.

FRANCIS GREGORY MALONE, of Baltimore, Md.

FRANKLIN PIERCE MONTGOMERY, JR., of Baltimore, Md.

CHARLES WILLIAM PEKAR, of Baltimore, Md.

ROBERT RUDOLPH PETRICK, of Belcamp, Md.

EFREM MORDECAI POTTS, of Baltimore, Md.

BYRON EDWARD RICE, JR., of Baltimore, Md.



EARL LOUIS RICE, JR., of Baltimore, Md.  
CHARLES CLIFFORD RUTTER, of Perry Point, Md.  
STANLEY SEIDEN, of Highland Park, N. J.  
CHARLES WILBUR SHAW, of Baltimore, Md.  
LARRY MARTIN SILVERMAN, of Baltimore, Md.

THADDEUS WALLACE SWANK, of Baltimore, Md.  
JULIUS HERBERT TAYLOR, of Baltimore, Md.  
WILSON RAY TOLSON, of Baltimore, Md.  
EMANUEL LOUIS WILDER, of Baltimore, Md.  
RAYMOND ELWOOD YOUNG, of Reading, Pa.

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#### GRADUATING WITH HONOR

WILLIAM FALLIN DINSMORE

ISADORE R. HANKIN

RAYMOND ELWOOD YOUNG

#### BACHELORS OF SCIENCE

IRVING J. ABRAMOWITZ, of Baltimore, Md.  
MARGARET ELEANOR ADAMS, of Baltimore, Md.  
EDNA VIRGINIA ATKINSON, of Baltimore, Md.  
CARL SAMUEL BASSETT, JR., of Baltimore, Md.  
GRACE ARLENE BASTIAN, of Baltimore, Md.  
ELLEN RIDER BLAKE, of Los Angeles, Calif.  
MYRNA ELECTA BROCKLEY, of Hanover, Pa.  
VERONICA LOUISE BUDACZ, of Baltimore, Md.  
LONNIE F. CAMING, of Baltimore, Md.  
MARY ALICE CARR, of Baltimore, Md.  
THEODORA CASTAGNA, of Baltimore, Md.  
MARION LOUISE CHAMBERLIN, of Cuba, N. Y.  
ANNE ELIZABETH CLARK, of Baltimore, Md.  
RUTH SMILEY CLIFFORD, of Baltimore, Md.  
EDWIN COHEN, of Baltimore, Md.  
FLORENCE JEANETTE CONNOR, of Towson, Md.  
OSCEOLA HALSEY CRANDELL, of Baltimore, Md.  
CLARA MAY CROCKETT, of Baltimore, Md.  
ROBERT CURLAND, of Baltimore, Md.  
ELIZABETH ELEANOR DAVIS, of Baltimore, Md.  
ALTON CHARLES DONSBACH, of San Antonio, Tex.  
LUCILLE MILLER DUVAL, of Baltimore, Md.  
MARY ELIZABETH EBERLE, of Baltimore, Md.  
ALLAN PAUL EVANS, of Annapolis, Md.  
MATILDA W. FALCK, of Baltimore, Md.  
EMANUEL FELDMAN, of Baltimore, Md.  
JEANETTE HARIETTE FESSENDEN, of Edgerton, Wis.  
WILLARD HALL FISHER, of Delmar, Del.  
HANS FISHER FLEXNER, of Baltimore, Md.  
DORIS ANNE FORNACI, of Baltimore, Md.  
JOSEPH FRANKLIN FOWBLE, of Timonium, Md.  
ABRAHAM FOX, of Glen Burie, Md.

G. GORDON GAENG, of Baltimore, Md.  
DORA GOLDBLATT, of Baltimore, Md.  
MARIAN SPIKLOSER GORDON, of Baltimore, Md.  
HUGH GRAHAM, of Baltimore, Md.  
RALPH A. GREGORY, of Baltimore, Md.  
NORBERT L. GRUNWALD, of Takoma Park, Md.  
ROSALIND EDMONDS HIHN, of Baltimore, Md.  
LELIA KATHERINE HOLDEN, of Baltimore, Md.  
MORGAN AUSTIN JONES, of Baltimore, Md.  
JOYCE JACOBSON KAUFMAN, of Baltimore, Md.  
EPHRAIM KESTENBAUM, of New York, N. Y.  
MENASHE KESTENBAUM, of New York, N. Y.  
JEAN GIBBONS KILBOURNE, of Baltimore, Md.  
JOHN GORDON KOCH, of Haverhill, N. H.  
SUSIE ELIZABETH LITTLE, of Darlington, Md.  
ROBERT CRAWFORD LLOYD, of Baltimore, Md.  
GEORGE RIDGELY LUCKETT, of Annapolis, Md.  
HENRY WILSON MAGLIOT, of Baltimore, Md.  
DONZELLA CLARA MILLER, of Baltimore, Md.  
ETHEL GITH MILLER, of Baltimore, Md.  
REDMOND KATHLEEN MOLZ, of Baltimore, Md.  
WILLIAM ROBERT MORRISON, of Baltimore, Md.  
ARCHIBALD JAMES MURRAY, of Baltimore, Md.  
JOHN RUPERT NEARY, of Hanover, Pa.  
IRENE E. FREEBURGER ODDO, of Baltimore, Md.  
\* EARL CRANSTON PRICE, of Aberdeen, Md.  
SHIZUKO ASAHI PROCTOR, of Olney, N. Y.  
GEORGE ROSENTHAL, of Washington, D. C.  
CLEMENTINE THERESA SCHARF, of Baltimore, Md.  
ALVIN LOUIS SCHREIBER, of Baltimore, Md.  
ANNA FRANCES SHAW, of Baltimore, Md.  
HERBERT HAROLD SILVERMAN, of Baltimore, Md.

\* Died January 12, 1949.

DANIEL GRIFFIN SMITH, of Baltimore, Md.  
RHODA DOROTHY SORGE, of Baltimore, Md.  
JANE BARTELL SPROL, of Baltimore, Md.  
MARTHA S. LONG SZEKELY, of Baltimore, Md.  
JOHN OWEN THOMAS, of Baltimore, Md.

HILDA OLTE TIMMERMAN, of Baltimore, Md.  
CHARLOTTE MARIE WAGNER, of Baltimore, Md.  
HILDA WATSON, of Baltimore, Md.  
JOYCE BARKER WHITE, of Greenwich, Conn.  
ROBERT JAMES ZIEGLER, of Baltimore, Md.

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#### GRADUATING WITH HONOR

GRACE ARLENE BASTIAN  
DORIS ANNE FORNACI  
ABRAHAM FOX

LELIA KATHERINE HOLDEN  
JOYCE JACOBSON KAUFMAN  
GEORGE RIDGELY LUCKETT

REDMOND KATHLEEN MOLZ

#### BACHELORS OF SCIENCE IN NURSING

MARY ADAMS, of Jefferson, S. D.  
BEULAH ALLMAN, of Alexander, N. C.  
JANE GINN BAILEY, of Syracuse, N. Y.  
MARJORIE JEAN BAKER, of Ashland, Kan.  
DORA KINLAW BAXTER, of Lumberton, N. C.  
THERESA BELL, of Greensboro, N. C.  
RUTH CHRISTINE BENDER, of Lititz, Penn.  
HELEN WHITRIDGE BRUCE, of Baltimore, Md.  
MIRIAM ALLEN BUCHACA, of Delmar, N. Y.  
HELEN LOIS BURDON, of Houston, Tex.  
JOSEPHINE JEANNE BUREAU, of Lexington, Ky.  
BARBARA R. BURKHOLDER, of Alpena, Mich.  
GRAYCIE MARIE CAMERON, of St. Petersburg, Fla.  
PEGGY ANN CASE, of Spartanburg, S. C.  
KATHLEEN M. CONNOLLY, of New York, N. Y.  
DOROTHY JANE DARNELL, of Rodeo, N. Mex.  
REBECCA LITTLE FAUST, of Crawford, Ga.  
OPAL VIRGINIA GARDNER, of Hillsville, Va.  
MARIAN RUTH GARVIN, of Bethesda, Md.  
WANDA DOROTHY GINTER, of New Haven, Conn.  
JEAN JOSEPHINE GIRTON, of Baltimore, Md.  
FLORENCE E. GOBILLOT, of Sharon, Conn.  
SARA MAE HARRO, of Harrisburg, Pa.  
DOROTHY L. HASTINGS, of Waukon, Iowa  
WILDA CHARLENE HOWL, of Oklahoma City, Okla.  
MABEL BLANCHE INGRAHAM, of Kingsport, Tenn.  
DESSIE B. INGRAM, of Nolensville, Tenn.  
KATHARINE DIACK JACKSON, of Detroit, Mich.  
FRANCES BENSON KAHN, of Austin, Tex.  
MADREA JANE KALBAUGH, of Cristobal, Canal Zone  
MYRION LOVE KING, of Washington, D. C.  
CATHERINE FRANCIS LAUDER, of Monmouth, Ill.  
ANNIE MAE MCDANIEL, of Bennettsville, S. C.  
HELEN MARGARET McDONALD, of Leeper, Pa.  
NAN McDOWELL, of Shelby, N. C.

MARGARET ELIZABETH MEIN, of Recife, Brazil.  
HELEN M. MERRILL, of Helena, Mont.  
AVIS WHITE MOORE, of Westfield, Mass.  
MARY JEAN NEWMAN, of South Bend, Ind.  
MARGUERITE NICHOLS, of Sumter, S. C.  
NATALIE R. PARKER, of Portland, Ore.  
JANICE RUTH PERRY, of Youngstown, Ohio  
RENA PITOTTI, of Glen White, W. Va.  
MERCEDES PITTMAN, of Birmingham, Ala.  
MARY HESTER POWELL, of Warsaw, N. C.  
ELEANOR ELIZABETH PRESBREY, of Fall River, Mass.  
RUTH ANN PRESTON, of Ithaca, N. Y.  
SARAH MAY REUSS, of Towson, Md.  
ETHEL MARIE ROSENFELD, of Baltimore, Md.  
BONNIE DALE RUSH, of El Paso, Tex.  
RUTH JAY SAMET, of Brooklyn, N. Y.  
NANCY BYRD SHEARER, of Washington, D. C.  
MARY E. SHERIFF, of Sierra Madre, Calif.  
JOAN HOPE SHUCHOWSKY, of Perth Amboy, N. J.  
KATIE LEE SNYDER, of Pewee Valley, Ky.  
MARY SHORT SPENCER, of Wessington Springs, S. D.  
GENEVA STANLEY, of Fairfax, S. C.  
CAROLINE DERRICK STROUP, of Rock Hill, S. C.  
MARGARET VIRGINIA TEETER, of Taneytown, Md.  
MONICA BETH THOMSON, of Binghamton, N. Y.  
ALICE HELEN TOWNSEND, of Westmont, N. J.  
JANE GARRISON TROLINGER, of Baltimore, Md.  
AMELIA WALLACE, of Florence, S. C.  
MARGIE G. WATKINS, of Chattanooga, Tenn.  
JEAN DYSART WHEATON, of Wildwood, N. J.  
MARY ELLEN WIGGINS, of Dallas, Tex.  
ELIZABETH WYCKOFF, of Chicago, Ill.  
EVANGELINE M. YOUNG, of Lyman, S. C.  
ELECTRA SONIA YPHANTIS, of Belmont, Mass.

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## MASTERS OF EDUCATION

### WITH TITLES OF ESSAYS

- GERALD WILLIAM BROWN, of Los Angeles, Calif., A. B. Santa Barbara State College, 1941.
- VIVIAN IRENE CORD, of Baltimore, Md., B. S. The Johns Hopkins University, 1946.  
Promotional Practices, A Survey of the Current Literature with a View Toward Suggesting Areas for Experimentation in the Baltimore Public Elementary Schools.
- EDWARD MERTON FISHEL, of Monkton, Md., B. S. State Teachers College, Towson, Md., 1938.
- MILTON THOMAS GOEDEKE, of Baltimore, Md., B. S. University of Maryland, 1941.
- JOSEPH ELLIOTT GREEN, JR., of Baltimore, Md., A. B. The Johns Hopkins University, 1937.
- JULIUS GEORGE HLUBB, of Baltimore, Md., A. B. Gettysburg College, 1929.
- JAMES M. LAING, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1946.
- ANN MUNCASTER RICE, of Germantown, Md., A. B. Western Maryland College, 1944.
- GERTRUDE HELEN SVEC, of Relay, Md., B. S. The Johns Hopkins University, 1937.
- VERNON SEBASTIAN VAVRINA, of Pikesville, Md., B. S. The Johns Hopkins University, 1937.
- GEORGE RUSSELL WACKENHUT, of Baltimore, Md., B. S. University of Hawaii, 1943.

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## DOCTORS OF EDUCATION

### WITH TITLES OF DISSERTATIONS

- SIDNEY LEON CELLER, of Baltimore, Md., B. S. College of the City of New York, 1937; M. S., 1939.  
A Descriptive Statistical Study of Discipline.
- REBEKAH R. LIEBMAN, of Baltimore, Md., B. S. Virginia State Teachers College, 1929; M. Ed. University of Maryland, 1942.  
Herbartian Methodology in American Education.
- SISTER ROSMARY PFAFF, of Emmitsburg, Md., A. B. St. Joseph's College, 1934; M. A. Catholic University of America, 1946.  
The Effectiveness of the Public Address System in the Teaching of Religious Information.

(3)

## MASTERS OF SCIENCE IN HYGIENE

### WITH TITLES OF THESES

- MARY MARGARET CAREY, of Mount Rainier, Md., B. A. Barnard College, 1938. Biochemistry.  
Studies in Nutritional Muscular Dystrophy in the Rabbit, With Particular Emphasis on Adenosine Triphosphatase and Phosphatase Activity in Muscle Homogenate.
- ALONZA CASSON JOHNSON, of Baltimore, Md., B. S. Morgan State College, 1946. Biochemistry.  
The Reaction Kinetics of Vitamin A Decomposition.
- SANKARANARAYANA SUNDARARAMAN, of Madras, India, B. Sc. Ag. Madras University, Coimbatore, 1941; L. T. Madras University, Madras, 1942. Parasitology.  
Biometrical Studies on Intergradation in the Genitalia of Certain Populations of *Culex pipiens* and *Culex quinquefasciatus* in the United States.
- CHUNG-CHANG TANG, of Foochow, China, B. S. Fukien Christian University, 1929. Parasitology.  
Sweet Potato Cultivation and Hookworm Disease in Fukien, South China.

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## DOCTORS OF SCIENCE IN HYGIENE

### WITH TITLES OF DISSERTATIONS

- ROY WILLIAM CHAMBERLAIN, of Conrad, Mont., B. S. Montana State College, 1942. Parasitology.  
An Investigation on the Synergistic Action of Piperonyl Butoxide with Pyrethrum.
- CHARLES CLAYTON CROFT, of Washington, D. C., B. S. University of Maryland, 1936; M. S. 1937. Bacteriology.  
Studies on the Quantitative Determination of Hemolytic Antibody.
- WILLIAM KEYS LAWLOR, U. S. Navy, B. S. Cornell University, 1933. Parasitology.  
Immunological Studies of Antigens Extracted from Mosquitoes and Their Application in Taxonomy.
- ROBERT MURDOCH LEWERT, of Scranton, Penn., B. S. University of Michigan, 1941; M. S. Lehigh University, 1943. Parasitology.  
Studies on Exoerythrocytic Stages of *Plasmodium galinaceum* in Tissue Culture and Subsequent Inoculation into Chickens.
- WILLIAM DEXTER LINDQUIST, of Lewiston, Idaho, B. S. University of Idaho, 1940; M. S. 1942. Parasitology.  
Some Abnormal Host Relationships of a Rat Nematode, *Nippostrongylus muris*.
- DON WILFRED MICKS, of Rusk, Tex., B. S. North Texas State College, 1940; M. S. 1942. Parasitology.  
Studies on Strains of *Plasmodium elongatum* with Special Reference to Factors Influencing Susceptibility and Transmission through the Mosquito.
- PHILIP EDWARD SMITH, of Herrin, Ill., B. Ed. South Illinois Normal University, 1940; M. S. University of Illinois, 1942. Parasitology.  
Life History and Host-parasite Relations of *Heterakis spumosa*, a Nematode Parasite in the Colon of the Rat.
- MARTHA KERFOOT WARD, of Blackstone, Va., B. A. Randolph-Macon Woman's College, 1937; M. A. University of Virginia, 1942. Bacteriology.  
Studies on the Role of Iron in Toxicogenicity of the Types of *Corynebacterium diphtheriae*, with Some Observations on Growth Requirements of These Organisms in a Synthetic Medium.
- PAUL PETER WEINSTEIN, of Brooklyn, N. Y., B. A. Brooklyn College, 1941. Parasitology.  
The Cultivation of the Free-living Stages of Parasitic Nematodes in the Absence of Living Bacteria.
- JOHN ALFONSO YURCHENCO, of Bridgeport, Conn., B. A. Albion College, 1941. Bacteriology.  
Studies on the Bacteriophage Typing of *Salmonella*.

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## MASTERS OF PUBLIC HEALTH

- SALAH-ELDIN MOHAMED ATTIA, of Cairo, Egypt, M. B. B. Ch. Fouad 1st University, 1937.
- JOHANNES HENRIK BAUER, of New York, N. Y., M. D. University of Upsala, 1915.
- JOSEPH MICHAEL BISTOWISH, of New Orleans, La., B. S. Tulane University, 1940; M. D. 1943.
- ROBERT MEREDITH BROWN, of St. Louis, Mo., B. S. in Chem. E. University of South Carolina, 1935.
- CHARLES OLIN BRUCE, U. S. Army, A. B. University of Nebraska, 1929; M. D. 1934.
- CARLOS LUIS GABRIEL CAMACHO, of Quito, Ecuador, M. D. Central University of Quito, 1945.
- BYRON DAVID CASTEEL, U. S. Navy, A. B. University of Texas, 1935; M. D. Harvard University, 1941.
- MOU-PING CHENG, of Nan Chang, Kiangsi, China, M. D. National Medical College of Shanghai, 1940.
- YÜ-T'U CHIANG, of Peiping, China, B. S. Yen Ching University, 1936; M. D. Peiping Union Medical College, 1939.
- FREDESWINDA REYES DE LEÓN, of Basig, Rizal, Republic of the Philippines, A. A. University of the Philippines, 1934; M. D. 1939.
- GEORGE WILLIAMSON AUCHINVOLLE DICK, of Entebbe, Uganda, M. B. Ch. B. Edinburgh University, 1938; B. Sc. 1939.
- THOMAS BENJAMIN DUNNE, of Charles Town, W. Va., A. B. Johns Hopkins University, 1939; M. D. University of Maryland, 1943.
- ERIBERTO ECHEZURIA, of Caracas, Venezuela, M. D., Central University of Venezuela, 1945.
- HUGO ENRIQUEZ FRODDEN, of Santiago, Chile, M. D. University of Chile, 1930; C. P. H. 1944.
- MARGARET JULIE KAPPEL FARLEY, of Baltimore, Md., B. A. Goucher College, 1925; M. D. Johns Hopkins University, 1929.
- CHIH-YING FENG, of Tientsin, China, B. S., Nankai University, 1938; M. D. Peiping Union Medical College, 1942.

- CHARLES RAYMOND FREEBLE, JR., of Leetsdale, Penn., B. S. University of Pittsburgh, 1943; M. D. 1945.
- RODNEY ROBERT GLEYSTEN, U. S. Navy, B. A. Grinnell College, 1934; M. D. University of Iowa, 1938.
- WILLIAM ALFRED HARRIS, of Indian Head, Md., B. S. Tufts College, 1939; M. D. Columbia University, 1943.
- GRETHE BENEDICTE HARTMANN, of Copenhagen, Denmark, M. D. University of Copenhagen, 1937; Ph. D. 1941.
- FREDERICK CARRISON HEATH, of Blacksburg, Va., M. D. Hahnemann Medical College, 1929.
- LEWIS ELLSWORTH HEDGECOCK, U. S. Navy, A. B. Iowa State Teachers College, 1927; M. D. University of Iowa, 1931.
- ALAN DALE HOUSER, of New Paltz, N. Y., A. B. Indiana University, 1939; M. D. 1942.
- MARTHA CHARLOTTE JOHNSON, of Baltimore, Md., R. N. Wesley Memorial Hospital, Chicago, 1928; B. S., University of Chicago, 1942.
- NOWSHIR KAIKOBAD JUNGALWALLA, of Bombay, India, M. B., B. S. Rangoon University, 1936; L. R. C. P., M. R. C. S. (England), 1937; M. R. C. P. (London), 1937.
- EARL GOSS KINGDON, U. S. Army, D. V. M., Colorado State College, 1936.
- OSCAR WILBUR KOCHTITZKY, JR., of Knoxville, Tenn., B. S. C. E. University of North Carolina, 1932.
- DAYANANDA KONCHADY, of Bondelipo, Mangalore, India, B. E. University of Madras, India, 1945; M. S. Harvard University, 1947.
- ABRAHAM MORRIS LILIENFELD, of Baltimore, Md., M. D. University of Maryland, 1944.
- AUGUSTO LOPEZ VIDAL, of La Paz, Bolivia, M. D., University of San Andres, La Paz, Bolivia, 1945.
- ANTONIO ABREU LOZANO, of Manila, Republic of the Philippines, M. D. University of the Philippines, 1937; C. P. H. 1939.
- JOAQUIM DE OLIVEIRA COSTA MAIA, of Porto, Portugal, M. D., University of Porto, Portugal, 1945.
- AMIN MOHSEN, of Cairo, Egypt, M. B. B. Ch. Fouad 1st University, 1935; D. P. H. 1941; D. T. M. and H. 1942.
- ROBERT ANDRUS MOUNT, U. S. Navy, M. D. Baylor University, 1938.
- EDWARD COTHAM MULLINIKS, of Johnson City, Tenn., A. B. University of Missouri, 1927; M. D. University of Tennessee, 1931.
- Saiyid Masud Husain Naqvi, of Lucknow, India, M. B., B. S. University of Lucknow, India, 1933; D. P. H., London School of Hygiene and Tropical Medicine, 1939.
- Fernando Orihuela, of Lima, Peru, M. D., Berlin University, 1940.
- ELTON SMITH OSBORNE, JR., U. S. Public Health Service, M. D., University of Georgia, 1937.
- KISHORE CHANDRA PATNAIK, of Calcutta, India, M. B. B. S. Lucknow University, 1941; D. P. H., Calcutta University, 1943.
- ADAM JOZEF RAPALSKI, U. S. Army, M. D. Syracuse University, 1938.
- FRANK WALKER REYNOLDS, of Baltimore, Md., A. B. Colgate University, 1933; M. D. University of Rochester, 1937.
- JORGE ROMÁN-PAVLETICH, of Santiago, Chile, M. D. University of Chile, 1938.
- MANABU SASA, of Tokyo, Japan, M. D. University of Tokyo, 1940.
- HELEN SCHNETZER, of Springfield, Mass., R. N. St. Vincent's Hospital School of Nursing, New York, 1930; B. S. Columbia University, 1938.
- MILDRED ESTHER SCOTT, of Richmond, Va., B. S. University of Kansas, 1940; M. D. 1930.
- ZEKIN ANDREW SHAKHASHIRI, of Beirut, Lebanon, B. A. American University of Beirut, 1931; M. S. 1934; M. D. 1938.
- CHARLES RAYMOND SHARP, of Walla Walla, Wash., B. A. University of Oregon, 1931, M. D. 1935.
- LEWIS CALVIN SHELLENBERGER, U. S. Army, B. S. Westminster College, 1929; M. D. Jefferson Medical College, 1933.
- YU-MING SHEN, of Canton, China, M. D. National Medical College of Shanghai, 1938.
- TITO LOPES DA SILVA, of Sao Paulo, Brazil, M. D. University of Brazil, 1934.
- ALFREDO SISON, of Dagupan City, Pangasinan, Republic of the Philippines, M. D. University of the Philippines, 1941.
- MARTHA LOUISE SMITH, of New York, A. B. Swarthmore College, 1937; M. D. University of Buffalo, 1942.
- ELFLEDA SPRAGUE, of Monterey, Calif., R. N., St. Luke's Nursing School, San Francisco, Calif., 1930; B. S. University of Syracuse, 1948.
- ALICE MAREEN SUNDBERG, of Baltimore, Md., B. A. Coe College, 1932; R. N. Peter Bent Brigham Hospital, Boston, Mass., 1938.
- MARY ELIZABETH TENNANT, of New York, N. Y., A. B. University of Colorado, 1916; R. N. Vassar College and Philadelphia General Hospital, 1920; B. Sc. Simmons College, 1921.
- ISMAIL ALI TOPUZOGU, of Istanbul, Turkey, M. D. Istanbul University, 1941.
- SZU-TAI TSOU, of Shanghai, China, M. D. St. Johns University, Shanghai, 1936.
- MILTON TULLY, of Buffalo, N. Y., M. D. University of Buffalo, 1937.
- RAFAEL URZÚA LIGERON, of Talca, Chile, M. D. University of Chile, 1940.
- KARL GÖSTA HERLOG VAHLNE, of Stockholm, Sweden, Med. Dr. Lunds University, Sweden, 1946.
- JOSÉ VALLE ANTELO, of La Paz, Bolivia, M. D. University of Chile, 1942.



CLARENCE ANTHONY VELAT, U. S. Public Health Service, B. S. St. Mary's College, Winona, Minn., 1939; M. D. St. Louis University, 1946.

MARY BARIYTE WADDELL, of Rio de Janeiro, Brazil, A. B. Russell Sage College, 1928; M. D. Woman's Medical College of Pennsylvania, 1933.

MARY WALTON, U. S. Public Health Service, B. S. University of Minnesota, 1929; M. D. 1931.

YUNG-TSIEH WANG, of Yenling, Honan, China, M. D. Northwestern University, Sian, China, 1944.

GEORGE SHARPE WATKINS, U. S. Navy, B. S. Waynesburg College, 1929; M. D. University of Pittsburgh, 1932.

WALDEMAR JOHN AXEL WICKMAN, U. S. Public Health Service, B. S. in Med. University of Michigan, 1930; M. D. 1930.

BETSY GERALDINE WOOTTEN, of Berkeley, Calif., A. B. University of California, Los Angeles, 1935; M. D. Washington University, 1940.

TEODORO ZENTENO BERTICEVIC, of Santiago, Chile, M. D. University of Chile, 1929.

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## DOCTORS OF PUBLIC HEALTH

### WITH TITLES OF THESES

THOMAS McLAREN GALLOWAY, of Dollar, Scotland, M. B. Ch. B. Edinburgh University, 1941; M. R. C. P. 1945; D. P. H. University of London, 1947. Public Health Administration.

Administration of the Maryland Medical Care Programs.

FRED CARL KLUTH, of Cleveland, Ohio, A. B. Western Reserve University, 1934; M. D. 1938; M. P. H. Johns Hopkins University, 1940. Bacteriology.

Proteetive Antibodies in the Serum of Syphilitic Persons.

HERMAN SIEMENS, of Edmonton, Alberta, Canada, B. Sc., University of Manitoba, 1930; M. Sc. University of Alberta, 1931; M. D. 1937; D. P. H. University of Toronto, 1941. Public Health Administration.

Mental Hygiene Aspects of Eating Behavior in the Pre-school Child.

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## DOCTORS OF MEDICINE

STUART CHARLES ALEXANDER, of East Orange, N. J., Bucknell University; Stanford University; University of Michigan.

KENNETH NELS ANDERSEN, of Missouri Valley, Ia., State University of Iowa; University of Pennsylvania.

HELEN MAE ANDERSON, of Buffalo, N. Y., A. B. University of Michigan, 1945.

ROBERT EARLE APPLEBY, of Norwalk, Conn., Indiana University; University of Michigan.

JEREMIAH ABRAHAM BARONDESS, of Woodmere, N. Y., Hofstra College; Pennsylvania State College; Wayne University; University of Michigan.

RAY JACKSON BEASLEY, JR., of Baltimore, Md., Boston University; Washington University; University of Pennsylvania.

ELSTON LEWIS BELKNAP, JR., of Milwaukee, Wis., A. B. Oberlin College, 1945.

DANIEL JOHN BIRMINGHAM, of Lynbrook, N. Y., John Carroll University.

JOHN WILLIAM BOLTON, of Miami, Fla., University of Florida; Hamilton College; Rhode Island State College; Tufts College Medical School.

BENJAMIN BURROWS, of Jamaica, N. Y., Johns Hopkins University.

VIRGINIA BRADY CALKINS, of Baltimore, Md., A. B. University of Michigan, 1945.

HOWARD LLOYD CARBAUGH, of Philadelphia, Penn., Pennsylvania State College.

RICHARD RUSSELL CHAMBERLAIN, of Belmont, Mass., S. B. Harvard University, 1944.

JAMES ROBERT COFFEE, of Amarillo, Tex., Amarillo College; University of Chicago; University of Colorado.

HERBERT IRVING COHEN, of Rochester, N. Y., Harvard University; Wayne University; University of Michigan.

ELLIOT LEW COLES, of Milwaukee, Wis., S. B. Muhlenberg College, 1946.

WILLIAM WARNER COON, of Saginaw, Mich., Johns Hopkins University.

ROBERT DAVIS COX, of South Bend, Ind., S. B. University of Notre Dame, 1945.

WILLIAM SAUNDERS COXE, of Roanoke, Va., S. B. Hampden-Sydney College, 1945.



- GORDON DEREK CURRIE, of Liverpool, England, M. B. and Ch. B. University of Liverpool.
- JOSEPH MICHAEL DALY, of New York, N. Y., New York University; University of Connecticut; Yale University.
- EARL HAMILTON DEARBORN, of Manhattan, Kan., A. B. University of Kansas, 1938; A. M. 1940; Ph. D. University of Chicago, 1942.
- MARJORIE JEAN FOOTE, of Endicott, N. Y., A. B. Goucher College, 1944.
- WILLIAM FREDERICK FRITZ, of Oshkosh, Wis., S. B. Muhlenberg College, 1946.
- BENJAMIN HOWARD GASTON, of Harrison, Ark., A. B. University of Louisville, 1946.
- JAMES EDWARD HANSEN, of Green Bay, Wis., St. Norbert College; University of Wisconsin; Marquette University.
- EDWARD BLAIR HEADLEY, of Cincinnati, Ohio, University of Cincinnati; Pennsylvania State College.
- DOROTHY HUGHES HENNEMAN, of Pelham, N. Y., A. B. Wellesley College, 1944.
- EDWARD WINSLOW HOPKINS, of Haddonfield, N. J., Union College.
- THEDA RAE BURN HOPKINS, of Port Henry, N. Y., A. B. Oberlin College, 1945.
- ALBERT BURNHAM HUFFER, of Toledo, Ohio, Oberlin College.
- WILLIAM INSULL, JR., of Farmington, Mich., S. B. University of Michigan, 1945.
- JAMES PERSHING ISAACS, of Struthers, Ohio, S. B. Ohio University, 1946.
- WAYNE EUGENE JACOBSON, of Richmond, Calif., S. B. Willamette University, 1947.
- JOHN ARTHUR JARRELL, JR., of Atlanta, Ga., A. B. The Johns Hopkins University, 1946.
- THEODORE HERBERT KAISER, of Brooklyn, N. Y., The Johns Hopkins University.
- IRWIN GENE KASLE, of Toledo, Ohio, S. B. Yale University, 1948.
- CHRISTINE WAPLES KEHNE, of Philadelphia, Penn., A. B. Bryn Mawr College, 1942.
- ERNEST FLOYD LATHAM, of San Diego, Calif., A. B. Stanford University, 1947.
- CHARLES IRA LEFTWICH, JR., of Huntington, Wa. Va., S. B. Marshall College, 1946.
- IRA LEVENTER, of New York, N. Y., A. B. New York University, 1947.
- CHARLOTTE CLARK LEVINE, of Baltimore, Md., A. B. Goucher College, 1945.
- HARRY JOSEPH LOWE, of Nogales, Ariz., S. B. University of Arizona, 1944; M. S. 1945.
- HARRY BELLAMY MARTIN, of Seattle, Wash., A. B. University of Washington, 1944.
- HARRY MOSES McALLISTER, of Rochelle, Ga., A. B. University of Georgia, 1936.
- JAMES STANLEY MCGEEHAN, of Baltimore, Md., Pennsylvania State College; University of Mississippi.
- GEORGE EDWARD MCKINNON, of Riverside, Calif., University of Wyoming; University of Texas.
- GILBERT WYLIE MELLIN, of Oakmont, Penn., S. B. Bethany College, 1945.
- EMERY CLYDE MILLER, JR., of Hickory, N. C., A. B. University of North Carolina, 1945.
- JAMES EDWARD MITCHELL, of Lyme, Conn., Downside College, England; University College, Cork.
- HOWARD EDWIN MORGAN, of LeRoy, Ill., Illinois Wesleyan University.
- THOMAS OGDEN MURPHY, of Tacoma, Wash., S. B. Willamette University, 1945.
- ARTHUR RYDEN NELSON, of Ashtabula, Ohio, Oberlin College.
- BARBARA CAROL NEWBORG, of Durham, N. C., A. B. Swarthmore College, 1941.
- JAMES CORSON NIEDERMAN, of Hamilton, Ohio, Kenyon College; The Johns Hopkins University.
- ALBERT HENRY OWENS, JR., of Staten Island, N. Y., The Johns Hopkins University; Harvard University; New York Medical College.
- DUILIO DINO PIROLI, of Aliquippa, Penn., Boston University; Yale University.
- HORACE MANN POWELL, JR., of Indianapolis, Ind., S. B. Indiana University, 1946.
- ROBERT CARLISLE RENDTORFF, of Pullman, Mich., A. B. University of Illinois, 1937; M. S., 1939; D. Sc. in Hyg. The Johns Hopkins University, 1944.
- WILLIAM FRANCIS RIENHOFF, III, of Baltimore, Md., A. B. University of Virginia, 1948.
- JOHN LAZELLE SAWYERS, of Centerville, Ia., A. B. University of Rochester, 1946.
- RONALD STUART SEATON, of Baltimore, Md., College of Wooster; Trinity College.
- LEONARD SIEGEL, of Newport News, Va., A. B. University of Virginia, 1945.
- CHARLES MATTHEW SINN, JR., of Seaside Hgts., N. J., Temple University; Princeton University.
- NATHAN THAL, of Bellingham, Wash., S. B. University of Washington, 1945.
- GEORGE IRVING THOMAS, of Seattle, Wash., A. B. University of California, 1946.
- DANIEL JAMES TORRANCE, JR., of Seattle, Wash., S. B. University of Washington, 1944.
- JOHN FREDERICK TROXEL, of Baltimore, Md., A. B. William Jewell College, 1945.
- CHARLES ALEXANDER VANARSDALL, of Harrodsburg, Ky., A. B. University of Louisville, 1946.
- GEORGE RICHARD WILKINSON, JR., of Greenville, S. C., S. B. Presbyterian College, 1945.

WILLIAM ARTHUR WILLIAMS, of Baltimore, Md., Pennsylvania State College.

WILLIAM NELSON YOUNG, JR., of Baltimore, Md., Cornell University.

RALPH JOHN ZIENTEK, of Chicago, Ill., The Citadel; University of Maryland.

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## MASTERS OF ARTS

### WITH TITLES OF ESSAYS

JANET CLAUTICE ABELE, of Baltimore, Md., B.S. State Teachers College, Towson, Md., 1943. Education.

ALEXANDER ARMSTRONG, of Towson, Md., A.B. Princeton University, 1937. English.

CLARA MCNEILL ARTHUR, of Catonsville, Md., A.B. Western Maryland College, 1942. Romance Languages.  
The Danaides in French Tragedy.

ROBERT CLARK AXTMANN, of Youngstown, Ohio, A.B. Oberlin College, 1947. Chemistry.

JANE FOX BARLOW, of Philadelphia, Penn., A.B. Smith College, 1947. Classics.

GEORGE FRANCIS BARRY, S. J., of Baltimore, Md., A.B. Weston College, 1947; M.A. Boston College, 1948. Oriental Seminary.

JEROME BEATY, of Baltimore, Md., A.B. The Johns Hopkins University, 1947. Writing, Speech and Drama.  
The Eternal Footman.

THOMAS EDWARD BEUKELMAN, of Baltimore, Md., B.A. University of South Dakota, 1947. Chemistry.

PASCHAL BIAGINI, of New York, N. Y., A.B. The Johns Hopkins University, 1948. Romance Languages.

ALICE HELM BOSLEY, of Ruxton, Md., B.S. The Johns Hopkins University, 1948. Romance Languages.

FRANCES CARY BOWEN, of Baltimore, Md., B.S. The Johns Hopkins University, 1947. Writing, Speech and Drama.  
Four Dramatizations on American Literary Classics for Children.

PHILIP MELCHERS BREITENBUCHER, of Chamblee, Ga., B.S. United States Military Academy, 1939. Psychology.

CATHERINE GEORGIA BUCKEL, of Baltimore, Md., B.S. Western Maryland College, 1948. Romance Languages.

LINCOLN BRICE BUCKLIN, of Doekton, Wash., A.B. University of Washington, 1941. Romance Languages.

MARGUERITE DEWEY CARROLL, of New York, N. Y., A.B. Vassar College, 1942. Physiological Chemistry.  
On the Role of Serum Proteins in Antibody Formation.

ELIAS COHEN, of Baltimore, Md., B.S. University of Maryland, 1942. Biology.

FRANCES ELIZABETH CONNOR, of Towson, Md., B.S. The Johns Hopkins University, 1947. Classics.

JANICE MARTIN CORDRAY, of Baltimore, Md., A.B. Goucher College, 1943. Classics.

MITCHELL JOSEPH DAHOOD, S. J., of Baltimore, Md., A.B. Weston College, 1947; M.A. Boston College, 1948. Oriental Seminary.

BETTY NELSON DANIEL, of Baltimore, Md., A.B. Mount Holyoke College, 1942. Biology.

ELVA VIOLA DITMAN, of Baltimore, Md., A.B. Western Maryland College, 1924. Education.

EDGAR OWEN EDWARDS, of Granville, N. Y., B.A. Washington and Jefferson College, 1947. Political Economy.  
The Theory and Practices of Accounting for Patents on the Books of the Firm.

WINIFRED SOBIE ELSON, of Baltimore, Md., A.B. Temple University, 1946. Psychology.

JACOB EPSTEIN, of Baltimore, Md., B.S. The Johns Hopkins University, 1941. Education.

DOUGLAS DAVID FEAEVER, of Toronto, Ont., Canada, B.A. Toronto University, 1948. Classics.

MARION HOOVER FERGUSON, of Ellicott City, Md., A.B. Western Maryland College, 1927. Education.

ROBERT PAUL FLYNN, of Baltimore, Md., A.B. The Johns Hopkins University, 1947. Writing, Speech, and Drama.  
The Use of Dramatic Technique in Mental Therapy.

ADA GITOMER, of Glen Burnie, Md., B.S. University of Pittsburgh, 1947. Psychology.

MITCHELL GOLD, of Baltimore, Md., A.B. The Johns Hopkins University, 1947. Writing, Speech, and Drama.  
The Front Street Theatre (from its beginnings to 1838).

THOMAS EDWARD GOMPF, of Pikesville, Md., A.B. The Johns Hopkins University, 1948. Chemistry.

JANE HAKEMER, of Tyaskin, Md., B.S. Washington College, 1947. Chemistry.

MARK WEBBER HARRIMAN, of St. James, Md., A.B. Franklin and Marshall College, 1947. Psychology.

JOSEPH HARRIS, of Baltimore, Md., B.S. University of Maryland, 1947. Physiological Chemistry.

THOMAS SOUTHWORTH HARRISON, of Indianapolis, Ind., A.B. Amherst College, 1942. Chemistry.

RAY EARL HARTER, of Baltimore, Md., B.S. The Johns Hopkins University, 1938. Romance Languages.



- CHARLES STAHR HARTMAN, of Fort Wayne, Ind., A. B. Franklin and Marshall College, 1934; B. D. Yale University, 1937. History.  
Franklin and Marshall Academy: The Last Seventy-one Years of its History 1872-1943.
- NORVAL JOHN HAWKINS, of Baltimore, Md., A. B. The Johns Hopkins University, 1948. Chemistry.
- JOHN JOSEPH HILL, of Kansas City, Mo., A. B. Rockhurst College, 1942. Physics.
- PAULINE TUSTIN HOBBS, of Baltimore, Md., B. A. Goucher College, 1936. Education.
- BERWIND NORMAN KAUFMAN, of Cold Spring Harbor, N. Y., B. A. University of Pennsylvania, 1946. Biology.
- DAVID MORRIS KIPNIS, of Baltimore, Md., A. B. The Johns Hopkins University, 1946. Biology.  
The Mechanism of Inhibition of Bioluminescence by Naphthoquinones.
- GEORGE SCHNEIDER KOCH, JR., of Rome, N. Y., S. B. Harvard College, 1948. Geology.
- MARJORIE BERTHA KOPPEL, of Brooklyn, N. Y., B. A. Vassar College, 1948. Classics.
- ALEXANDRA VEGA KRINKIN, of New York, N. Y., A. B. New York University, 1944; M. A., 1947. Writing, Speech, and Drama.  
The Dialogue of One.
- GEORGE ARTHUR LA VELLE, of Seattle, Wash., B. S. University of Washington, 1946. Biology.
- MICHAEL LEYZOREK, of New York, N. Y., B. S. College of the City of New York, 1942. Psychology.
- GERMAIN DE BRUCQ-LIEBMAN, of Brussels, Belgium. Romance Languages.
- ROBERT BRUCE LLOYD, of Toledo, Ohio, A. B. Oberlin College, 1948. Classics.
- JOAN LOYD, of St. Joseph, La., B. A. Louisiana State University, 1948. Romance Languages.
- RICHARD KENNERLY MARSHALL, of Towson, Md., A. B. The Johns Hopkins University, 1947. History.  
The Alliance of Clergy and People in Mediaeval Liège.
- RICHARD ALFRED MAZZARA, of New York, N. Y., B. A. Queens College, 1948. Romance Languages.
- ELMER S. MCKEE, of Baltimore, Md., A. B. Gettysburg College, 1944. Chemistry.
- MARJORIE HARRIS MELVILLE, of Macon, Ga., B. A. Agnes Scott College, 1947. Chemistry.
- CHARLES MARTIN MONNIER, of West Allis, Wis., B. S. Cornell University, 1938. Writing, Speech and Drama.  
Two Plays: "Will" and "Judas."
- THOMAS FRANCIS MOORE, of Dallas, Tex., B. S. Southern Methodist University, 1944. Chemistry.
- WILLIAM EDWARD MOORE, of Baltimore, Md., B. A. The Johns Hopkins University, 1948. Mathematics.
- ROBERT LANCELOT MYERS, of Stratford, Ont., Canada, B. A. University of Western Ontario, 1948. Romance Languages.
- GEORGE MURRAY NAUSS, JR., of Baltimore, Md., A. B. University of Maryland, 1948. Writing, Speech and Drama.  
Nippon Farewell.
- JOHN ALEXANDER PARKINS, of Martindale, Penn., B. A. Washington and Lee University, 1939. Chemistry.
- THEODORE POWELL, of Baltimore, Md., B. A. Colgate University, 1948. Political Science.
- HARVEY MARCELLUS POWERS, JR., of Baltimore, Md., A. B. Tufts College, 1947. Writing, Speech and Drama.  
The Arena Theatre.
- JOHN JOSEPH PUGH, of Baltimore, Md., A. B. Loyola College, 1943. Writing, Speech and Drama.  
An Introduction to Aesthetics.
- JOHN OLIVER RICH, of Baltimore, Md., A. B. Rollins College, 1938. Education.
- LOUIS DECIMUS RUBIN, JR., of Richmond, Va., B. A. University of Richmond, 1946. Writing, Speech and Drama.  
The Education of Quintus Kohn.
- TURBIT HENRY 'SLAUGHTER, of Baltimore, Md., A. B. The Johns Hopkins University, 1940. Geology.  
Shore Erosion in Tidewater Maryland.
- VIRGINIA ELISE SPICKARD, of Dundalk, Md., B. S. Mary Washington College, 1948. Art.
- RICHARD LAZELL STAPLES, of Wilmington, Del., B. A. Colgate University, 1947. Geology.
- CARL OWEN THOMAS, of Birmingham, Ala., A. B. Howard College, 1947. Chemistry.
- WILLIAM EDGEWORTH THOMPSON, of Baltimore, Md., B. S. University of Alabama, 1941. Chemistry.
- RICHARD PORTER THOMSEN, of Baltimore, Md., A. B. Yale University, 1934. Education.
- MARY BENNETT VANDERHOOF, of Geneva, N. Y., A. B. Goucher College, 1939. Romance Languages.
- SARAH PRISCILLA WEBSTER, of Pylesville, Md., B. F. A. Maryland Institute, 1946. Education.
- MICHAEL MATTHEW WERTHEIMER, New York, N. Y., B. A. Swarthmore College, 1947. Psychology.
- GORDON WALLACE WILSON, of St. Helena, Calif., A. B. University of California, 1939. Writing, Speech and Drama.  
The Holliday Street Theatre.
- SAM SHEPHERD WOHL, of Baltimore, Md., B. A. University of Maryland, 1948. Writing, Speech and Drama.  
"Life by Drowning" and other Stories.



## DOCTORS OF PHILOSOPHY

### WITH TITLES OF DISSERTATIONS

- SAM LAZRUS AGRON**, of Chicago, Ill., B. S. Northwestern University, 1941. Geology.  
Structure and Petrology of the Peach Bottom Slate and Its Environment.
- MILTON JOEL ALLEN**, of Baltimore, Md., S. B. University of Chicago, 1946; M. S. Oklahoma Agricultural and Mechanical College, 1947. Chemistry.  
The Synthesis of Substituted Bis- (*p*-Aminophenyl) Ethylene Glycols, Aminostilbenes, Aminoindenes and Aminoindanes with a Preliminary Survey of some of their Physiological Properties.
- IQBAL SINGH BHATIA**, of Amritsar, India, B. S. Punjab University, 1944; M. S. 1945. Chemistry.  
Dithizone as a Model for Antidote Studies.
- EMMETT LOREN BUHLE**, of Cambridge, Mass., A. B. The Johns Hopkins University, 1941; M. A. 1944. Chemistry.  
Some 4-(4-Phenylazo-naphthyl) Semicarbazides.
- SCHUYLER CAMMANN**, of Long Island, N. Y., A. B. Yale University, 1935; M. A. Harvard University, 1941. History.  
The Early English Attempts to Open Tibet.
- VERNON CHRISTIAN CARLSON**, of Jacksonville Beach, Fla., A. B. Wittenberg College, 1928. Education.  
The Chronological Development of the Platonic Education.
- WILLIAM AUBREY COBBAN**, of Polson, Mont., B. A. University of Montana, 1940. Geology.  
Stratigraphy of the Colorado and Montana Groups (Upper Cretaceous) of the Central and Northern Great Plains with Descriptions of the Colorado Scaphites.
- JOSEPH MICHAEL DOUGHTY**, of Baltimore, Md., A. B. Franklin and Marshall College, 1943. Psychology.  
The Effect of Psychophysical Methods and Context on Pitch and Loudness Functions.
- LOUIS FRANKLIN DRUMMETTER, JR.**, of Washington, D. C., A. B. The Johns Hopkins University, 1943. Physics.  
The Infrared Absorption of Water Vapor at 1.8 Microns.
- JAMES BROWN EDSON**, of Havre de Grace, Md., A. B. University of Kansas, 1935; M. A. 1938. Physics.  
Optical Studies of the Jet Flame of the V<sup>2</sup> Missile in Flight.
- ARDEL AZIZ ABDALLA EL GHOROURY**, of Alexandria, Egypt, M. B. B. Ch. Fouad 1st University, 1941. Bacteriology.  
Comparative Studies on Group "B" Streptococci of Human and Bovine Origin.
- CHARLES PAINE FENIMORE**, of Havre de Grace, Md., B. A. University of Buffalo, 1942. Chemistry.  
The Crystal Structure of Dibiphenylene-Ethylene.
- LEON DAVID FREEDMAN**, of Baltimore, Md., A. B. The Johns Hopkins University, 1941; M. A. 1947. Chemistry.  
Oxidation-Reduction Potentials of Thiol-Disulfide Systems.
- SHOU-CHENG FU**, of Peiping, China, B. S. Catholic University of Peiping, 1941; M. S. 1944. Chemistry.  
The Mechanism of the Halogenation of Pyrrole-Derivatives and the Structure of Some Pyrrolenines.
- JACOB EUGENE GAIR**, of Brooklyn, N. Y., A. B. University of Rochester, 1946. Geology.  
Some Effects of Deformation in the Central Appalachians.
- HELEN MEREDITH GARTH**, of Ormond Beach, Fla., A. B. Vassar College, 1938; M. A. Bryn Mawr College, 1940. History.  
St. Mary Magdalene in Mediaeval Literature.
- JOHN WARREN GRAHAM**, of Silver Spring, Md., A. B. The Johns Hopkins University, 1940. Geology.  
The Stability and Significance of Magnetism in Sedimentary Rocks.
- GEORGE L. GRASSMUCK**, of Pasadena, Calif., A. B. University of California, 1941; M. A. 1943. Political Science.  
Congressional Politics in Foreign Affairs, 1921-1941.
- JEROME MAYO GREENBERG**, of Baltimore, Md. Physics.  
Considerations of Very Small Angle Atomic Scattering with Application to Scattering Losses in the Synchrotron.
- EDWARD ALDRICKS HAMILTON**, of Jasper, Tex., B. S. Texas Agricultural and Mechanical College, 1939. Geology.  
The Sedimentology of the Upper Jurassic Formations in the Vicinity of Escalante, Utah.
- RICHARD E. HAYMAKER**, of Upper Darby, Penn., A. B. College of Charleston, 1924; A. M. 1925. English.  
William Henry Hudson: Some Chapters toward a Biographical and Critical Study.
- EDWARD C. HIGBEE**, of Baltimore, Md., B. A. University of Wisconsin, 1932; M. A. 1939. Geography.  
Guatemala's Agrarian Problem.
- NOBUTAKA IKE**, of Stanford, Calif., B. A. University of Washington, 1940. Political Science.  
The Democratic Movement in Meiji Japan.
- EDGAR BURKE INLOW**, of Princeton, N. J., A. B. State College of Washington, 1937; M. A. University of California, 1940. Political Science.  
The Patent Grant.
- MARIE LOUISE KOCH**, of Baltimore, Md., B. S. The Johns Hopkins University, 1921; M. S. 1935. Bacteriology.  
The Laboratory Diagnosis of Gonorrhea in Women.

- WILBERT FREDERICK KOEHLER, of W. Annapolis, Md., B. S. Allegheny College, 1933; M. A. Cornell University, 1934. Physics.  
The Ratio of the Specific Heats of Gases,  $c_p/c_v$ , by a Method of Self-Sustained Oscillations.
- RALPH WERNER KRONE, of New York, N. Y., B. S. Antioch College, 1942; M. S. University of Illinois, 1943. Physics.  
Angular Distribution Measurements of Protons Yielding the Two Low Levels of  $Li^7$ .
- FAITH WILSON LAVELLE, of Philadelphia, Penn., B. A. Mount Holyoke College, 1943; M. A. 1945.  
A Study of Hormonal Factors in the Early Sex Development of the Golden Hamster.
- SIDNEY THOMAS MATHEWS, of Arlington, Va., A. B. University of Richmond, 1936. History.  
The Nicaragua Canal Controversy: The Struggle for an American-constructed and -controlled Transitway.
- ROBERT JAMES MERRILL, of Ottawa, Ont., Canada, B. S. Queens College, 1944; M. S. 1947. Geology.  
Reconnaissance Geology of the Basic Rocks of Northern Maine.
- HELMA CATHERINE MILLER, of Baltimore, Md., B. S. The Johns Hopkins University, 1945. Biology.  
Factors Affecting the Rate and Recovery of Chemically Induced Mutations in Microorganisms.
- ROBERT BALLIN NEUMAN, of Washington, D. C., B. S. University of North Carolina, 1941. Geology.  
The St. Paul Group: A Revision of the "Stones River" Group of Maryland and Adjacent States.
- RICHARD BRADBURY PALMER, of Baltimore, Md., A. B. Lehigh University, 1943. Geology.  
Triassic Tectonics in Maryland.
- CHARLES WILBUR PETERS, of Baltimore, Md., A. B. The Johns Hopkins University, 1938. Physics.  
The Infrared Absorption of  $CO_2$  at 15 Microns.
- JOHN DAVID REINHIMER, of Wooster, Ohio, B. A. Kenyon College, 1942; M. A. The Johns Hopkins University, 1944. Chemistry.  
The Study of Carbonylhydrazide and Thiocarbonylhydrazides.
- ROBERT RESNICK, of Baltimore, Md., A. B. The Johns Hopkins University, 1943. Physics.  
Theory of the Angular Distribution of the Nuclear Reaction  $Li(d, \alpha)$ .
- ZOILA REYES-GALVIS, of Bogotá, Columbia, A. B. West Virginia University, 1944; M. S. 1945. Chemistry.  
Studies on the Structure of Hemoglobin.
- HARRY STROUD ROBERTSON, of Tampa, Fla., B. S. University of North Carolina, 1942. Physics.  
Oscillatory Phenomena in Spark Discharges.
- GEORGE LEON ROGOSA, of Lynn, Mass., A. B. The Johns Hopkins University, 1944. Physics.  
A Double Crystal Investigation of the L X-Ray Transitions involving the Valence Bands of Tantalum.
- MARY CARMAN ROSE, of Arlington, Va., B. A. University of Minnesota, 1937; M. A. 1939. Philosophy.  
Three Hierarchies of Value: A Study in the Philosophies of Value of Henri Bergson, Alfred North Whitehead, and Søren Kierkegaard.
- FRANK LOREN SMITH, of Baltimore, Md., A. B. Oberlin College, 1942; M. A. 1947. Psychology.  
Generalization Gradients of Antedating and Perseverating Tendencies in Linear Maze.
- LLOYD GRENFELL STEVENSON, of London, Ont., Canada, B. A. University of Western Ontario, 1941; M. D. 1944. History of Medicine.  
A History of Lead Poisoning.
- HAROLD STANLEY STEWART, of Hamilton, Ont., B. S. University of Chicago, 1935. Physics.  
Theoretical and Experimental Limits to the Detection of Radiant Energy.
- ALEX L. SWEET, of New York, N. Y., A. B. New York University, 1941; M. S. 1942. Psychology.  
Temporal Discrimination by the Human Eye.
- VIRGINIA LOUISE SYDOW, of Miami, Fla., B. A. Randolph-Macon Woman's College, 1942; M. A. Smith College, 1944. Chemistry.  
Porphyrin Syntheses.
- BAYLY TURLINGTON, of Accomac, Va., B. A. University of the South, 1942. Classics.  
Dioscorides of the Palatine Anthology.
- CHARLOTTE WILLIAMS, of Nashville, Tenn., A. B. Vanderbilt University, 1938; M. A. 1939; M. A. Columbia University, 1941. Political Science.  
Hugo L. Black: A Study in the Judicial Process.
- RONALD MCFARLANE WOOD, of Baltimore, Md., B. S. McGill University, 1939. Bacteriology.  
Studies on the Laboratory Diagnosis of Brucellosis Agglutination Reactions and a Note on Aureomycin Levels in Blood and Milk of Cattle.
- RAYMOND WARREN YOUNG, of North Bergen, N. J., B. A. New Jersey State Teachers College, 1945; M. A. Rutgers University, 1946. Political Science.  
American Socialism and the Leadership of Norman Thomas.





